AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0074410
SECTION: 3 OF 4

DOCUMENT #: Not Numbered

TITLE: Environmental Restoration Disposal Facility (ERDF) Cells 7-10 Detailed Design Package, Rev. 0

Washington Closure Hanford

EXHIBIT "F"
DRAWINGS

DRAWINGS			
	Title	Drawing No.	Revision & Date
1	Title, Location & Hanford Area Maps	0600X-DD-G0026	Rev. 0 9/28/2007
2	Drawing List	0600X-DD-G0027	Rev. 0 9/28/2007
3	Symbols	0600X-DD-G0028	Rev. 0 9/28/2007
4	Abbreviations	0600X-DD-G0029	Rev. 0 9/28/2007
5	Overall Site Plan	0600X-DD-C0258	Rev. 0 9/28/2007
6	Construction Limits and Fence Location - Cells 7 & 8	0600X-DD-C0259	Rev. 0 9/28/2007
7	Construction Limits and Fence Location - Cells 9 & 10	0600X-DD-C0260	Rev. 0 9/28/2007
8	Coordinate Table	0600X-DD-C0261	Rev. 0 9/28/2007
9	Fence Details	0600X-DD-C0262	Rev. 0 9/28/2007
10	Sign Details	0600X-DD-C0263	Rev. 0 9/28/2007
11	Existing Topography	0600X-DD-C0265	Rev. 0 9/28/2007
12	Project Office Trailer Placement	0600X-DD-C0266	Rev. 0 9/28/2007
13	Subgrade & Cell Berm Contours - Cells 7 & 8	0600X-DD-C0267	Rev. 0 9/28/2007
14	Subgrade & Cell Berm Contours - Cells 9 & 10	0600X-DD-C0268	Rev. 0 9/28/2007
15	Subgrade Survey Control Cells 7 & 8	0600X-DD-C0269	Rev. 0 9/28/2007
16	Subgrade Survey Control - Cells 9 & 10	0600X-DD-C0270	Rev. 0 9/28/2007
17	Admix Layer Contours - Cells 7 & 8	0600X-DD-C0271	Rev. 0 9/28/2007
18	Admix Layer Contours - Cells 9 & 10	0600X-DD-C0272	Rev. 0 9/28/2007
19	Secondary Drainage Layer Contours - Cells 7 & 8	0600X-DD-C0273	Rev. 0 9/28/2007
20	Secondary Drainage Layer Contours - Cells 9 & 10	0600X-DD-C0274	Rev. 0 9/28/2007
21	Primary Drainage Layer Contours - Cells 7 & 8	0600X-DD-C0275	Rev. 0 9/28/2007
22	Primary Drainage Layer Contours - Cells 9 & 10	0600X-DD-C0276	Rev. 0 9/28/2007
23	Operations Layer Contours - Cells 7 & 8	0600X-DD-C0277	Rev. 0 9/28/2007
24	Operations Layer Contours - Cells 9 & 10	0600X-DD-C0278	Rev. 0 9/28/2007
25	Civil Sections	0600X-DD-C0279	Rev. 0 9/28/2007
26	General Cross Sections	0600X-DD-C0280	Rev. 0 9/28/2007
27	Liner System Details - 1	0600X-DD-C0281	Rev. 0 9/28/2007
28	Liner System Details - 2	0600X-DD-C0282	Rev. 0 9/28/2007
29	Liner Termination Details - 1	0600X-DD-C0283	Rev. 0 9/28/2007
30	Liner Termination Details- 2	0600X-DD-C0284	Rev. 0 9/28/2007
31	Sump Layout Plan - Cell 7	0600X-DD-C0285	Rev. 0 9/28/2007
32	Sump Layout Plan - Cell 8	0600X-DD-C0286	Rev. 0 9/28/2007
33	Sump Layout Plan - 9	0600X-DD-C0287	Rev. 0 9/28/2007
34	Sump Layout Plan - Cell 10	0600X-DD-C0288	Rev. 0 9/28/2007
35	Sump Details - 1	0600X-DD-C0289	Rev. 0 9/28/2007
36	Sump Details - 2	0600X-DD-C0290	Rev. 0 9/28/2007
37	In-Cell Leachate Piping Plan - Cells 7 & 8	0600X-DD-C0291	Rev. 0 9/28/2007
38	In-Cell Leachate Piping Plan - Cells 9 & 10	0600X-DD-C0292	Rev. 0 9/28/2007
39	Crest Pad Plan and Elevation	0600X-DD-C0293	Rev. 0 9/28/2007
40	Yard Piping Plan - Cells 7 & 8	0600X-DD-C0294	Rev. 0 9/28/2007
41	Yard Piping Plan - Cells 9 & 10	0600X-DD-C0295	Rev. 0 9/28/2007
42	Stockpile Plan - Cells 7 & 8	0600X-DD-C0297	Rev. 0 9/28/2007
43	Stockpile Plan Cells 9 & 10	0600X-DD-C0298	Rev. 0 9/28/2007
44	Vadose Zone Monitoring System	0600X-DD-C0299	Rev. 0 9/28/2007
45	Vadose Zone Monitoring System Details	0600X-DD-C0300	Rev. 0 9/28/2007
46	Access Road Plan and Profile	0600X-DD-C0301	Rev. 0 9/28/2007
47	Access Road Plan and Profile	0600X-DD-C0302	Rev. 0 9/28/2007
48	Access Road Details	0600X-DD-C0304	Rev. 0 9/28/2007
49	Test Pits and Boring Locations	0600X-DD-C0308	Rev. 0 9/28/2007
50	Soil Boring Logs - 1	0600X-DD-C0309	Rev. 0 9/28/2007
51	Soil Boring Logs - 2	0600X-DD-C0310	Rev. 0 9/28/2007
52	Soil Boring Logs - 3	0600X-DD-C0311	Rev. 0 9/28/2007
53	Soil Test Pit Logs - 1	0600X-DD-C0312	Rev. 0 9/28/2007

Washington Closure Hanford

EXHIBIT "F"
DRAWINGS

DRAWINGS			
	Title	Drawing No.	Revision & Date
54	Soil Test Pit Logs - 2	0600X-DD-C0313	Rev. 0 9/28/2007
55	Soil Test Pit Logs - 3	0600X-DD-C0315	Rev. 0 9/28/2007
56	Crest Pad Bldg Structural Plans and Sections	0600X-DD-C0316	Rev. 0 9/28/2007
57	Structural Details - 1	0600X-DD-C0317	Rev. 0 9/28/2007
58	Structural Details - 2	0600X-DD-C0318	Rev. 0 9/28/2007
59	Crest Pad Bldg - Plans and Elevations	0600X-DD-A0014	Rev. 0 9/28/2007
60	Architectural Details - 1	0600X-DD-A0015	Rev. 0 9/28/2007
61	Architectural Details - 2	0600X-DD-A0016	Rev. 0 9/28/2007
62	Finish Schedules	0600X-DD-A0017	Rev. 0 9/28/2007
63	Electrical Symbols	0600X-DD-E0104	Rev. 0 9/28/2007
64	Electrical Abbreviations and General Notes	0600X-DD-E0105	Rev. 0 9/28/2007
65	Electrical Details - 1	0600X-DD-E0106	Rev. 0 9/28/2007
66	Electrical Details - 2	0600X-DD-E0107	Rev. 0 9/28/2007
67	Electrical Cable and Raceway Schedule	0600X-DD-E0109	Rev. 0 9/28/2007
68	Electrical Cable and Raceway Schedule	0600X-DD-E0110	Rev. 0 9/28/2007
69	Electrical Site Plan - Cell 7 & 8	0600X-DD-E0111	Rev. 0 9/28/2007
70	Electrical Site Plan - Cell 9 & 10	0600X-DD-E0112	Rev. 0 9/28/2007
71	Electrical One-Line Switchgear	0600X-DD-E0113	Rev. 0 9/28/2007
72	MCC One-Line Diagrams	0600X-DD-E0114	Rev. 0 9/28/2007
73	MCC Details	0600X-DD-E0116	Rev. 0 9/28/2007
74	Electrical Schedules	0600X-DD-E0117	Rev. 0 9/28/2007
75	Control Schematics - 1	0600X-DD-E0118	Rev. 0 9/28/2007
76	Control Schematics - 2	0600X-DD-E0119	Rev. 0 9/28/2007
77	Control Schematics - 3	0600X-DD-E0120	Rev. 0 9/28/2007
78	Control Schematics - 4	0600X-DD-E0121	Rev. 0 9/28/2007
79	Control Schematics - 5	0600X-DD-E0122	Rev. 0 9/28/2007
80	Crest Pad Electrical Power Plan	0600X-DD-E0123	Rev. 0 9/28/2007
81	Crest Pad Electrical Lighting Plan	0600X-DD-E0124	Rev. 0 9/28/2007
82	Piping Details	0600X-DD-M0022	Rev. 0 9/28/2007
83	Mechanical Schedules	0600X-DD-M0023	Rev. 0 9/28/2007
84	Mechanical Details	0600X-DD-M0024	Rev. 0 9/28/2007
85	Mechanical Schedules	0600X-DD-M0025	Rev. 0 9/28/2007
86	Crest Pad Details - 1	0600X-DD-M0027	Rev. 0 9/28/2007
87	Crest Pad Details - 2	0600X-DD-M0028	Rev. 0 9/28/2007

DRAWING NO.	REV. NO.
0600X-DD-G0027	0

DRAWING LIST

GENERAL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-G0026	TITLE, LOCATION & HANFORD AREA MAPS
0600X-DD-G0027	DRAWING LIST
0600X-DD-G0028	SYMBOLS
0600X-DD-G0029	ABBREVIATIONS

CIVIL

0600X-DD-C0258	OVERALL SITE PLAN
0600X-DD-C0259	CONSTRUCTION LIMITS AND FENCE LOCATION - CELLS 7 & 8
0600X-DD-C0260	CONSTRUCTION LIMITS AND FENCE LOCATION - CELLS 9 & 10
0600X-DD-C0261	COORDINATE TABLE
0600X-DD-C0262	FENCE DETAILS
0600X-DD-C0263	SIGN DETAILS
0600X-DD-C0264	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0265	EXISTING TOPOGRAPHY
0600X-DD-C0266	PROJECT OFFICE TRAILER PLACEMENT
0600X-DD-C0267	SUBGRADE & CELL BERM CONTOURS - CELLS 7 & 8
0600X-DD-C0268	SUBGRADE & CELL BERM CONTOURS - CELLS 9 & 10
0600X-DD-C0269	SUBGRADE SURVEY CONTROL - CELLS 7 & 8
0600X-DD-C0270	SUBGRADE SURVEY CONTROL - CELLS 9 & 10
0600X-DD-C0271	ADMIX LAYER CONTOURS - CELLS 7 & 8
0600X-DD-C0272	ADMIX LAYER CONTOURS - CELLS 9 & 10
0600X-DD-C0273	SECONDARY DRAINAGE LAYER CONTOURS - CELLS 7 & 8
0600X-DD-C0274	SECONDARY DRAINAGE LAYER CONTOURS - CELLS 9 & 10
0600X-DD-C0275	PRIMARY DRAINAGE LAYER CONTOURS - CELLS 7 & 8
0600X-DD-C0276	PRIMARY DRAINAGE LAYER CONTOURS - CELLS 9 & 10
0600X-DD-C0277	OPERATIONS LAYER CONTOURS - CELLS 7 & 8
0600X-DD-C0278	OPERATIONS LAYER CONTOURS - CELLS 9 & 10
0600X-DD-C0279	CIVIL SECTIONS
0600X-DD-C0280	GENERAL CROSS SECTIONS
0600X-DD-C0281	LINER SYSTEM DETAILS - 1
0600X-DD-C0282	LINER SYSTEM DETAILS - 2
0600X-DD-C0283	LINER TERMINATION DETAILS - 1
0600X-DD-C0284	LINER TERMINATION DETAILS - 2
0600X-DD-C0285	SUMP LAYOUT PLAN - CELL 7
0600X-DD-C0286	SUMP LAYOUT PLAN - CELL 8
0600X-DD-C0287	SUMP LAYOUT PLAN - CELL 9
0600X-DD-C0288	SUMP LAYOUT PLAN - CELL 10
0600X-DD-C0289	SUMP DETAILS - 1
0600X-DD-C0290	SUMP DETAILS - 2
0600X-DD-C0291	IN-CELL LEACHATE PIPING PLAN - CELLS 7 & 8
0600X-DD-C0292	IN-CELL LEACHATE PIPING PLAN - CELLS 9 & 10
0600X-DD-C0293	CREST PAD PLAN AND ELEVATION
0600X-DD-C0294	YARD PIPING PLAN - CELLS 7 & 8
0600X-DD-C0295	YARD PIPING PLAN - CELLS 9 & 10
0600X-DD-C0296	RESERVE FOR DETAILS -- (NOT USED)
0600X-DD-C0297	STOCKPILE PLAN - CELLS 7 & 8
0600X-DD-C0298	STOCKPILE PLAN - CELLS 9 & 10
0600X-DD-C0299	VADOSE ZONE MONITORING SYSTEM
0600X-DD-C0300	VADOSE ZONE MONITORING SYSTEM DETAILS
0600X-DD-C0301	ACCESS ROAD PLAN AND PROFILE
0600X-DD-C0302	ACCESS ROAD PLAN AND PROFILE
0600X-DD-C0303	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0304	ACCESS ROAD DETAILS
0600X-DD-C0305	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0306	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0307	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0308	TEST PITS AND BORING LOCATIONS
0600X-DD-C0309	SOIL BORING LOGS - 1
0600X-DD-C0310	SOIL BORING LOGS - 2
0600X-DD-C0311	SOIL BORING LOGS - 3
0600X-DD-C0312	SOIL TEST PIT LOGS - 1
0600X-DD-C0313	SOIL TEST PIT LOGS - 2
0600X-DD-C0314	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0315	SOIL TEST PIT LOGS - 3

STRUCTURAL CIVIL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-C0316	CREST PAD BLDG STRUCTURAL PLANS AND SECTIONS
0600X-DD-C0317	STRUCTURAL DETAILS - 1
0600X-DD-C0318	STRUCTURAL DETAILS - 2
0600X-DD-C0319	RESERVE FOR FUTURE USE -- (NOT USED)

ARCHITECTURAL

0600X-DD-A0014	CREST PAD BLDG - PLANS AND ELEVATIONS
0600X-DD-A0015	ARCHITECTURAL DETAILS - 1
0600X-DD-A0016	ARCHITECTURAL DETAILS - 2
0600X-DD-A0017	FINISH SCHEDULES

ELECTRICAL

0600X-DD-E0104	ELECTRICAL SYMBOLS
0600X-DD-E0105	ELECTRICAL ABBREVIATIONS AND GENERAL NOTES
0600X-DD-E0106	ELECTRICAL DETAILS - 1
0600X-DD-E0107	ELECTRICAL DETAILS - 2
0600X-DD-E0108	(NOT USED)
0600X-DD-E0109	ELECTRICAL RACEWAY AND CABLE SCHEDULE
0600X-DD-E0110	ELECTRICAL RACEWAY AND CABLE SCHEDULE
0600X-DD-E0111	ELECTRICAL SITE PLAN - CELL 7 & 8
0600X-DD-E0112	ELECTRICAL SITE PLAN - CELL 9 & 10
0600X-DD-E0113	ELECTRICAL ONE-LINE SWITCHGEAR
0600X-DD-E0114	MCC ONE-LINE DIAGRAMS
0600X-DD-E0115	(NOT USED)
0600X-DD-E0116	MCC DETAILS
0600X-DD-E0117	ELECTRICAL SCHEDULES
0600X-DD-E0118	CONTROL SCHEMATICS - 1
0600X-DD-E0119	CONTROL SCHEMATICS - 2
0600X-DD-E0120	CONTROL SCHEMATICS - 3
0600X-DD-E0121	CONTROL SCHEMATICS - 4
0600X-DD-E0122	CONTROL SCHEMATICS - 5
0600X-DD-E0123	CREST PAD ELECTRICAL POWER PLAN
0600X-DD-E0124	CREST PAD ELECTRICAL LIGHTING PLAN

MECHANICAL

0600X-DD-M0022	PIPING DETAILS
0600X-DD-M0023	MECHANICAL SCHEDULES
0600X-DD-M0024	MECHANICAL DETAILS
0600X-DD-M0025	MECHANICAL SCHEDULES
0600X-DD-M0026	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-M0027	CREST PAD DETAILS - 1
0600X-DD-M0028	CREST PAD DETAILS - 2
0600X-DD-M0029	RESERVE FOR FUTURE USE -- (NOT USED)

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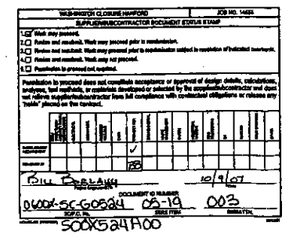
WCH - DOCUMENT CONTROL



NOTES

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME JOHN C. BRIEST
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL G0026-C0315

JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME DAVE E. MIELSON
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL C0316-A0017

DAVID E. MIELSON — STATE OF WASHINGTON — 28392 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES 9/23/08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME RAYMOND E. MERRIMAN
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL E0104-E0124

RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 12922 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 11-30-08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME TONY R. BENEGAS
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL M0022-M0029

TONY R. BENEGAS — STATE OF WASHINGTON — 27910 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES 11-22-08

DOCUMENT CONTROL 10/11/07

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ CHK'R	CHK'R CHK'R	SYS CHK'R	PROJ CHK'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJV	DB	DEM	DEM	N/A	DB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
DRAWING LIST

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDG0027.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-G0027	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15592 SHT01	600G	0000

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-G0026	0

PROJECT TITLE:

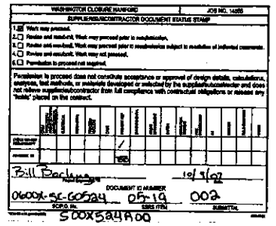
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF) CELLS 7 THROUGH 10 CONSTRUCTION DRAWINGS

FOR:

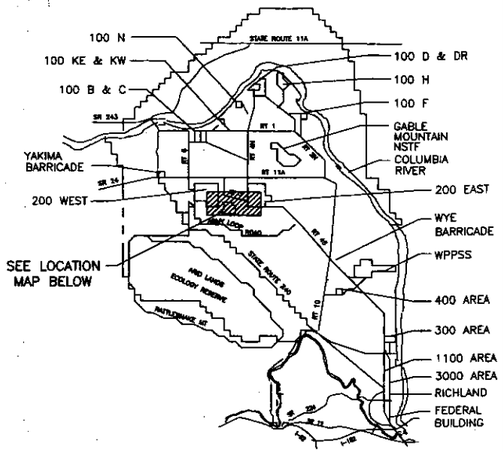
WASHINGTON CLOSURE HANFORD, LLC

BY:

WEAVER BOOS CONSULTANTS, LLC



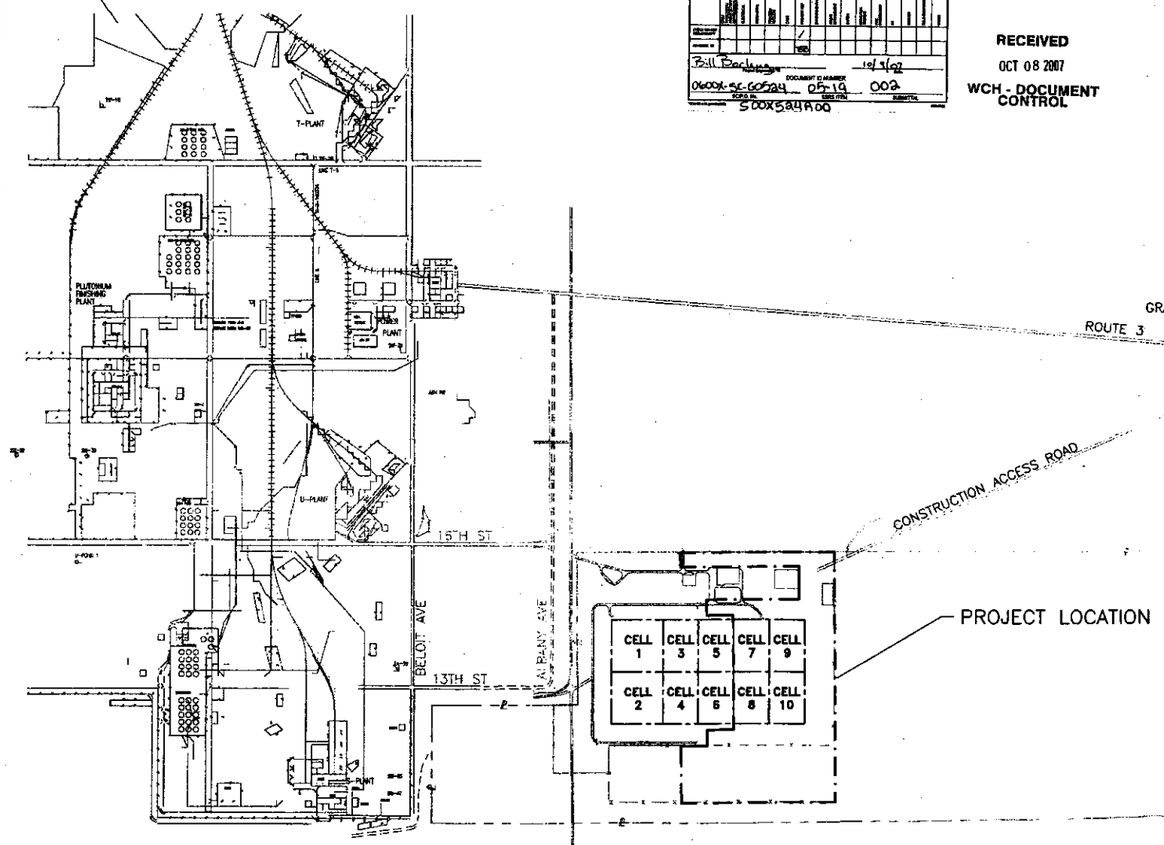
RECEIVED
OCT 08 2007
WCH - DOCUMENT CONTROL



HANFORD AREA MAP
NTS

200 EAST AREA

200 WEST AREA



LOCATION MAP
NTS

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15591 SHT01	600G	0100

NOTES

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME JOHN C. BRIEST
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL G0026-C0315

JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/21/07
EXPIRES: 5/28/08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME DAVE E. NIELSON
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL C0316-A0017

DAVID E. NIELSON — STATE OF WASHINGTON — 24992 — REGISTERED PROFESSIONAL ENGINEER — 9/23/07
EXPIRES 9/23/08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME RAYMOND E. MERRIMAN
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL E0104-E0124

RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 12323 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 11-30-08

THIS PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW HAS BEEN PREPARED UNDER THE DIRECT SUPERVISION AND RESPONSIBLE CHARGE OF THE UNDERSIGNED.

NAME TONY R. BENEGAS
DISCIPLINE PROFESSIONAL ENGINEER
SHEETS COVERED BY THIS SEAL M0022-M0029

TONY R. BENEGAS — STATE OF WASHINGTON — 87918 — REGISTERED PROFESSIONAL ENGINEER — 9-21-07
EXPIRES 11-22-07

DOCUMENT CONTROL mac 10/11/07

Best Available Copy

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG DSNR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	DJU					

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER,COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
TITLE, LOCATION & HANFORD AREA MAPS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDG0026.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-G0026	0

River Corridor Closure Contract
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-G0027	0

DRAWING LIST

GENERAL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-G0026	TITLE, LOCATION & HANFORD AREA MAPS
0600X-DD-G0027	DRAWING LIST
0600X-DD-G0028	SYMBOLS
0600X-DD-G0029	ABBREVIATIONS

CIVIL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-C0258	OVERALL SITE PLAN
0600X-DD-C0259	CONSTRUCTION LIMITS AND FENCE LOCATION – CELLS 7 & 8
0600X-DD-C0260	CONSTRUCTION LIMITS AND FENCE LOCATION – CELLS 9 & 10
0600X-DD-C0261	COORDINATE TABLE
0600X-DD-C0262	FENCE DETAILS
0600X-DD-C0263	SIGN DETAILS
0600X-DD-C0264	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0265	EXISTING TOPOGRAPHY
0600X-DD-C0266	PROJECT OFFICE TRAILER PLACEMENT
0600X-DD-C0267	SUBGRADE & CELL BERM CONTOURS – CELLS 7 & 8
0600X-DD-C0268	SUBGRADE & CELL BERM CONTOURS – CELLS 9 & 10
0600X-DD-C0269	SUBGRADE SURVEY CONTROL – CELLS 7 & 8
0600X-DD-C0270	SUBGRADE SURVEY CONTROL – CELLS 9 & 10
0600X-DD-C0271	ADMIX LAYER CONTOURS – CELLS 7 & 8
0600X-DD-C0272	ADMIX LAYER CONTOURS – CELLS 9 & 10
0600X-DD-C0273	SECONDARY DRAINAGE LAYER CONTOURS – CELLS 7 & 8
0600X-DD-C0274	SECONDARY DRAINAGE LAYER CONTOURS – CELLS 9 & 10
0600X-DD-C0275	PRIMARY DRAINAGE LAYER CONTOURS – CELLS 7 & 8
0600X-DD-C0276	PRIMARY DRAINAGE LAYER CONTOURS – CELLS 9 & 10
0600X-DD-C0277	OPERATIONS LAYER CONTOURS – CELLS 7 & 8
0600X-DD-C0278	OPERATIONS LAYER CONTOURS – CELLS 9 & 10
0600X-DD-C0279	CIVIL SECTIONS
0600X-DD-C0280	GENERAL CROSS SECTIONS
0600X-DD-C0281	LINER SYSTEM DETAILS – 1
0600X-DD-C0282	LINER SYSTEM DETAILS – 2
0600X-DD-C0283	LINER TERMINATION DETAILS – 1
0600X-DD-C0284	LINER TERMINATION DETAILS – 2
0600X-DD-C0285	SUMP LAYOUT PLAN – CELL 7
0600X-DD-C0286	SUMP LAYOUT PLAN – CELL 8
0600X-DD-C0287	SUMP LAYOUT PLAN – CELL 9
0600X-DD-C0288	SUMP LAYOUT PLAN – CELL 10
0600X-DD-C0289	SUMP DETAILS – 1
0600X-DD-C0290	SUMP DETAILS – 2
0600X-DD-C0291	IN-CELL LEACHATE PIPING PLAN – CELLS 7 & 8
0600X-DD-C0292	IN-CELL LEACHATE PIPING PLAN – CELLS 9 & 10
0600X-DD-C0293	CREST PAD PLAN AND ELEVATION
0600X-DD-C0294	YARD PIPING PLAN – CELLS 7 & 8
0600X-DD-C0295	YARD PIPING PLAN – CELLS 9 & 10
0600X-DD-C0296	RESERVE FOR DETAILS -- (NOT USED)
0600X-DD-C0297	STOCKPILE PLAN – CELLS 7 & 8
0600X-DD-C0298	STOCKPILE PLAN – CELLS 9 & 10
0600X-DD-C0299	VADOSE ZONE MONITORING SYSTEM
0600X-DD-C0300	VADOSE ZONE MONITORING SYSTEM DETAILS
0600X-DD-C0301	ACCESS ROAD PLAN AND PROFILE
0600X-DD-C0302	ACCESS ROAD PLAN AND PROFILE
0600X-DD-C0303	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0304	ACCESS ROAD DETAILS
0600X-DD-C0305	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0306	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0307	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0308	TEST PITS AND BORING LOCATIONS
0600X-DD-C0309	SOIL BORING LOGS – 1
0600X-DD-C0310	SOIL BORING LOGS – 2
0600X-DD-C0311	SOIL BORING LOGS – 3
0600X-DD-C0312	SOIL TEST PIT LOGS – 1
0600X-DD-C0313	SOIL TEST PIT LOGS – 2
0600X-DD-C0314	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-C0315	SOIL TEST PIT LOGS – 3

STRUCTURAL CIVIL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-C0316	CREST PAD BLDG STRUCTURAL PLANS AND SECTIONS
0600X-DD-C0317	STRUCTURAL DETAILS – 1
0600X-DD-C0318	STRUCTURAL DETAILS – 2
0600X-DD-C0319	RESERVE FOR FUTURE USE -- (NOT USED)

ARCHITECTURAL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-A0014	CREST PAD BLDG – PLANS AND ELEVATIONS
0600X-DD-A0015	ARCHITECTURAL DETAILS – 1
0600X-DD-A0016	ARCHITECTURAL DETAILS – 2
0600X-DD-A0017	FINISH SCHEDULES

ELECTRICAL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-E0104	ELECTRICAL SYMBOLS
0600X-DD-E0105	ELECTRICAL ABBREVIATIONS AND GENERAL NOTES
0600X-DD-E0106	ELECTRICAL DETAILS – 1
0600X-DD-E0107	ELECTRICAL DETAILS – 2
0600X-DD-E0108	(NOT USED)
0600X-DD-E0109	ELECTRICAL RACEWAY AND CABLE SCHEDULE
0600X-DD-E0110	ELECTRICAL RACEWAY AND CABLE SCHEDULE
0600X-DD-E0111	ELECTRICAL SITE PLAN – CELL 7 & 8
0600X-DD-E0112	ELECTRICAL SITE PLAN – CELL 9 & 10
0600X-DD-E0113	ELECTRICAL ONE-LINE SWITCHGEAR
0600X-DD-E0114	MCC ONE-LINE DIAGRAMS
0600X-DD-E0115	(NOT USED)
0600X-DD-E0116	MCC DETAILS
0600X-DD-E0117	ELECTRICAL SCHEDULES
0600X-DD-E0118	CONTROL SCHEMATICS – 1
0600X-DD-E0119	CONTROL SCHEMATICS – 2
0600X-DD-E0120	CONTROL SCHEMATICS – 3
0600X-DD-E0121	CONTROL SCHEMATICS – 4
0600X-DD-E0122	CONTROL SCHEMATICS – 5
0600X-DD-E0123	CREST PAD ELECTRICAL POWER PLAN
0600X-DD-E0124	CREST PAD ELECTRICAL LIGHTING PLAN

MECHANICAL

DRAWING NUMBER	DRAWING TITLE
0600X-DD-M0022	PIPING DETAILS
0600X-DD-M0023	MECHANICAL SCHEDULES
0600X-DD-M0024	MECHANICAL DETAILS
0600X-DD-M0025	MECHANICAL SCHEDULES
0600X-DD-M0026	RESERVE FOR FUTURE USE -- (NOT USED)
0600X-DD-M0027	CREST PAD DETAILS – 1
0600X-DD-M0028	CREST PAD DETAILS – 2
0600X-DD-M0029	RESERVE FOR FUTURE USE -- (NOT USED)

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NOTES

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SHEETS COVERED BY THIS SEAL G0026–C0315

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EXPIRES: 5/28/08

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EXPIRES 9/23/08

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EXPIRES 11-30-08

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11-22-08

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SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
DRAWING LIST

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S00X534H00

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DRAWING NO.	REV. NO.
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N400000 HANFORD COORDINATE GRID LINE
EXISTING SURFACE FEATURE OR PIPE
EXISTING UNDERGROUND PIPE
NEW PIPELINE (CIVIL SHEETS) 10" DIA OR SMALLER
CELL BOUNDARY
NEW FENCE
EXISTING FENCE
EXIST. RAILING
NEW RAILING
CENTERLINE
PROPERTY LINE
123 CONTOUR LINE, FINISHED GRADE
123 CONTOUR LINE, EXISTING GRADE
123.20 FINISHED ELEVATION
(123.20) EXISTING ELEVATION
NEW A.C. PAVING
EXISTING A.C. PAVING
NEW RAILROAD
EXISTING RAILROAD
SLOPE INDICATION
LIMITS OF CONSTRUCTION
FUTURE STRUCTURE OR FACILITY
EXISTING STRUCTURE OR FACILITY
EXISTING UNDERGROUND STRUCTURE OR FACILITY
POTENTIAL FUTURE STRUCTURE OR FACILITY
GRAVEL
CONCRETE
EARTH
SAND
GRATING
LOW PERMEABILITY SOIL LINER
GATE VALVE, BURIED WITH VALVE BOX
BUTTERFLY VALVE, BURIED WITH VALVE BOX
ECCENTRIC PLUG VALVE, BURIED WITH VALVE BOX
FH FIRE HYDRANT
MH MANHOLE
PCOTG PRESSURE CLEANOUT TO GRADE
COTG CLEANOUT TO GRADE
CB CATCH BASIN
BULK WATER STATION
BOLLARD
SOIL TEST PIT
SURVEY MONUMENTS

River Corridor Closure Contract WCH Dedicated To Safety Excellence

SURVEY CONTROL POINT
EXISTING WELL
FUTURE WELL
SOIL BORING LOCATION
3400 COORDINATE POINT
DOWN GUY
TELEPHONE/POWER POLE
CHANGE IN PIPING MATERIAL
ROUND OR DIAMETER
SQUARE
AT
ANGLE
12" RW (24) PIPE CALLOUT (DIA, FLUID ABBR, MATERIAL GROUP NO.)
ME-2 EQUIPMENT NUMBER (SEE EQUIPMENT SCHEDULE)
NIC EQUIPMENT, ITEMS OR DETAILS NOT PERTAINING TO THIS CONTRACT OR PROJECT ARE SHOWN THUS WITH THE NIC = NOT IN CONTRACT
GATE VALVE
BUTTERFLY VALVE
ECCENTRIC PLUG VALVE
GLOBE VALVE
BALL VALVE
DIAPHRAGM VALVE
CHECK VALVE
PRESSURE REGULATING VALVE
BACK-PRESSURE VALVE
FLOAT OPERATED VALVE
NEEDLE VALVE
PRESSURE RELIEF VALVE
M P MOTOR OPERATOR FOR VALVES (M = ELECTRIC, P = PNEUMATIC)
S SOLENOID VALVE
HOSE BIBB (H/B)
B BUBBLER LEVEL CONTROL
CENTRIFUGAL OR TURBINE PUMP OR FAN
CHEMICAL FEED PUMP
PROGRESSING CAVITY, POSITIVE DISPLACEMENT PUMP
BLOWER OR COMPRESSOR
INJECTOR OR EDUCTOR

AIR VACUUM AND AIR RELEASE ASSEMBLY
THERMOMETER
PIPE ANCHOR
STOP GATE
SLIDE GATE
SLUICE GATE
INLINE STATIC MIXER
HUB DRAIN
FLOOR DRAIN
DRAIN
DRAIN TRAP
CUT PIPE
FEXT FIRE EXTINGUISHER
G PRESSURE GAUGE
G PRESSURE GAUGE WITH DIAPHRAGM SEAL
S PRESSURE SWITCH
S PRESSURE SWITCH WITH DIAPHRAGM SEAL
FLANGED FITTING
WELDED FITTING
MECHANICAL-TYPE FITTING (GROOVED)
SCREWED, SOCKET-WELD, BELL AND SPIGOT OR HUBLESS FITTING
SLEEVE-TYPE COUPLING
FLANGED ADAPTER COUPLING
FLANGED ADAPTER – SET SCREW TYPE
EXPANSION JOINT
MECHANICAL TYPE COUPLING
FLEXIBLE COUPLING
UNION
QUICK DISCONNECT COUPLER
CAPPED END OR PLUGGED END
BLIND FLANGE
REDUCER OR EXPANDER
STRAINER
M M MAGNETIC METER
D M DENSITY METER
ORIFICE PLATE AND FLANGES
ROTAMETER

PIPE SUPPORT (IN PLAN ONLY)
MALE FIRE HOSE CONNECTION WITH CAP

SECTION AND DETAIL IDENTIFICATION

SECTION IDENTIFICATION

(1) SECTION CUT SHOWN ON DRAWING AS: — SECTION LETTER

A 0600X-00- — DRAWING NUMBER WHERE THE SECTION DRAWING IS LOCATED, SEE NOTE 1

(2) ON DRAWING NUMBER 0600X-DD- THIS SECTION IS IDENTIFIED AS:

SECTION LETTER — A SECTION 0600X-DD- — DRAWING ON WHICH THE SECTION CUT IS SHOWN

SCALE: AS DESIGNATED,

DETAIL IDENTIFICATION

(1) DETAIL IDENTIFICATION SHOWN ON DRAWING AS:

DETAIL DESIGNATION — 2 0600X-DD- — THE DETAIL NAME IS OPTIONAL AND LOCATED HERE, FOLLOWING DETAIL CALLOUT

DRAWING NUMBER WHERE THE STANDARD DETAIL DRAWING IS LOCATED.

(2) ON DRAWING NUMBER 0600X-DD-- THIS DETAIL IDENTIFIED AS:

DETAIL DESIGNATION — 2 DETAIL NAME 0600X-DD-

SCALE: AS DESIGNATED,

DRAWING ON WHICH THE SECTION CUT IS SHOWN

NOTES

1. IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A HORIZONTAL LINE.
2. SOME SYMBOLS SHOWN ON THIS DRAWING MAY NOT BE USED ON OTHER DRAWINGS.
3. ELECTRICAL SYMBOLS SHOWN ON DRAWING 0600X-DD-E0104.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — 10/9/07 — 0600X-SC-G0524 05-19 004

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STATE OF WASHINGTON REGISTERED PROFESSIONAL ENGINEER 42158 — 9/28/07

EXPIRES: 5/28/08

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SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 – 10
SYMBOLS

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RECORD INFORMATION

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AB ANCHOR BOLT
ABAND ABANDONED
ABBR ABBREVIATION
AC ASPHALT CONCRETE
A/C AIR CONDITIONING
ACFM ACTUAL CUBIC FEET PER MINUTE
ACOUS ACOUSTIC OR ACOUSTICAL
ACP ASPHALTIC CONCRETE PAVEMENT
AER AERATION
AH AHEAD
AL ALUM
ALUM ALUMINUM
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE (FORMERLY A.S.A.)
API AMERICAN PETROLEUM INSTITUTE
APPVD APPROVED
APPROX APPROXIMATE
ARCH ARCHITECTURAL
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPH ASPHALT
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIAL
ASSY ASSEMBLY
ATM ATMOSPHERE
AVAR AIR VACUUM AND AIR RELEASE
AWWA AMERICAN WATER WORKS ASSOCIATION

BC BEGIN CURVE OR BOLT CIRCLE
BCR BEGIN CURB RETURN
BD BOARD
BFP BACK FLOW PREVENTER
BHP BRAKE HORSEPOWER
BK BACK
BLDG BUILDING
BLD FLG BLIND FLANGE
BLK BLACK OR BLOCK
BLKG BLOCKING
BM BEAM OR BENCH MARK
BO BLOW-OFF ASSEMBLY
BOD BIOCHEMICAL OXYGEN DEMAND
BOT BOTTOM
BPV BACK PRESSURE VALVE
B & S BELL AND SPIGOT
BRG BEARING
BSMT BASEMENT
BTU BRITISH THERMAL UNIT
BTUH BRITISH THERMAL UNIT PER HOUR
BETW BETWEEN
BFV BUTTERFLY VALVE
BVC BEGIN VERTICAL CURVE
BWV BACK WATER VALVE
C CELSIUS
CAP CAPACITY
CATH CATHODIC
CB CATCH BASIN
CC CENTER TO CENTER
CD CEILING DIFFUSER
CFH CUBIC FEET PER HOUR
CFM CUBIC FEET PER MINUTE
CFS CUBIC FEET PER SECOND
CHEM CHEMICAL
CHK V CHECK VALVE
CHKD PL CHECKERED PLATE
CHLR CHLORINATOR
CI CAST IRON
CKT CIRCUIT
CL CHLORINE GAS, CHAIN LINK OR CENTERLINE
CLR CLEAR OR CLEARANCE
CLG COOLING
CM CENTIMETER
CML & C CEMENT MORTAR LINED AND COATED
CMP CORRUGATED METAL PIPE
CMU CONCRETE MASONRY UNITS
CO CLEANOUT
COL COLUMN
COMB COMBINATION
COND CONDUIT
COORD COORDINATE
COR CORNER
CONC CONCRETE
CONN CONNECTION
CONSTR CONSTRUCTION OR CONSTRUCT
CONT CONTINUED OR CONTINUOUS
CONTR CONTRACTOR
COMP COMPRESSOR
COTG CLEAN-OUT TO GRADE
CPLG COUPLING
CS CAUSTIC SODA
CT STL CAST STEEL
CTSK COUNTERSUNK
CTR CENTER
CU COPPER OR CUBIC
CYL CYLINDER
CWO CHAIN WHEEL OPERATOR
DET DETAIL
DF DRINKING FOUNTAIN
DG DOOR GRILLE
DI DUCTILE IRON
DIA DIAMETER
DIAG DIAGONAL
DIAPH DIAPHRAGM
DISCH DISCHARGE

DISP DISPENSER
DN DOWN OR DECANT
DO DISSOLVED OXYGEN
DOCS DAILY OPERATIONAL COVER STOCKPILE
DOE DEPARTMENT OF ENERGY
DR DRAIN
DS DRENCH SHOWER AND EYE WASH
DWG(S) DRAWING(S)
DIFF DIFFUSER
DIFRTL DIFFERENTIAL

E EAST
EA EACH
EC END CURVE
ECC ECCENTRIC
ECR END CURB RETURN
EF EACH FACE
EFL EFFLUENT
EG EXHAUST GRILLE
EL ELEVATION
ELEC ELECTRICAL OR ELECTRONIC
EMBED EMBEDMENT
ENC ENCASEMENT
ENCL ENCLOSURE
ENG ENGINE
EQL EQUAL
EQUIP EQUIPMENT
EVAP EVAPORATION, EVAPORATOR
EVC END VERTICAL CURVE
EW EACH WAY
EWH EYE WASH
EXH EXHAUST
EXHF EXHAUST FAN
EX-HY EXTRA HEAVY
EXST EXISTING
EXP EXPANSION
EXP JT EXPANSION JOINT
EXT EXTERIOR OR EXTENSION

F FAHRENHEIT
FABR FABRICATION, FABRICATE OR FABRICATED
FAI FRESH AIR INTAKE
FB FLAT BAR
FCO FLOOR CLEANOUT
FD FLOOR DRAIN
FD BK FIELD BOOK
FDN FOUNDATION
FDR FEEDER
FE FINAL EFFLUENT
FEXT FIRE EXTINGUISHER
FF FLAT FACE OR FAR FACE
F TO F FACE TO FACE
FG FINISHED GRADE
FH FIRE HYDRANT
FIG FIGURE
FIT FUEL ISLAND TERMINAL
FL FLOWLINE
FLEX FLEXIBLE
FLOCC FLOCCULATOR OR FLOCCULATION
FLG FLANGE
FLGD FLANGED
FLR FLOOR
FLR BM FLOOR BEAM
FMH FLEXIBLE METAL HOSE
FNSH FINISH OR FINISHED
FOC FACE OF CONCRETE
FOM FACE OF MASONRY
FOS FACE OF STUDS
FOW FACE OF WALL
FPC FLEXIBLE PIPE COUPLING
FPM FEET PER MINUTE
FPS FEET PER SECOND
FRP FIBERGLASS REINFORCED PLASTIC
FS FAR SIDE, FLOOR SINK, FINISHED SURFACE, FORGED STEEL OR FROTH SPRAY
FT FEET OR FOOT
FTG FOOTING
FUT FUTURE
FWW FILTER WASTE WASHWATER

GA GAGE OR GAUGE
GAL GALLON
GALV GALVANIZED
GEN GENERAL OR GENERATOR
GFA GROOVED FLANGE ADAPTER
GI GALVANIZED IRON
GLV GLOBE VALVE
GND GROUND
GPD GALLONS PER DAY
GPH GALLONS PER HOUR
GPM GALLONS PER MINUTE
GPR GROUND PENETRATING RADAR
GRD GRADE
GR BRK GRADE BREAK
GV GATE VALVE
GVL GRAVEL
GYP GYPSUM

H HEIGHT
H/B HOSE BIBB
HDR HEADER
HDPE HIGH DENSITY POLYETHYLENE
HEX HEXAGONAL

Hg MERCURY
HORIZ HORIZONTAL
HP HORSEPOWER
HPR HIGH PRESSURE
HPT HIGH POINT
HR HEATING RETURN OR HOUR
HTG HEATING
HTR HEATER
H & V HEATING AND VENTILATING
HVAC HEATING, VENTILATING AND AIR CONDITIONING
HWO HANDWHEEL OPERATED
HYD HYDRAULIC OR HYDRANT

ICFM INLET CUBIC FEET PER MINUTE
ID INSIDE DIAMETER
ID INSIDE FACE
IF INCH
INFL INFLUENT
INSUL INSULATION OR INSULATED
INSTR INSTRUMENT OR INSTRUMENTATION
INTFC INTERFACE
INVT INVERT ELEVATION
I/O INPUT/OUTPUT
IP IRON PIPE
IPS IRON PIPE STANDARD
IRRG IRRIGATION

JAN JANITOR
JT JOINT

KG KILOGRAM
KM KILOMETER
KV KILOVOLT
KW KILOWATT
KWH KILOWATT HOUR

L LITER OR LENGTH
LAV LAVATORY
LB POUND
LCU LOCAL CONTROL UNIT
LVL LEVEL
LG LONG
LO LEVER OPERATED
LOC LOCATION
LPT LIGHT POLE
LP LOW POINT
LPV LUBRICATED PLUG VALVE
LT LEFT
LWR LOWER
LGTH LENGTH

M METER
MAG MAGNETIC
MAN MANUAL
MACH MACHINE
MAX MAXIMUM
MCC MOTOR CONTROL CENTER
MECH MECHANICAL
MFR MANUFACTURER
MGD MILLION GALLONS PER DAY
MH MANHOLE
MI MALLEABLE IRON
MIN MINIMUM
MISC MISCELLANEOUS
MK MARK
MO MOTOR OPERATED OR MASONRY OPENING
MOD MODEL
MS MOP SINK
MTC MECHANICAL-TYPE COUPLING
MT MOUNT
MATL MATERIAL
MTR MOTOR

N NORTH
NAD NORTH AMERICAN DATUM
NAVD NORTH AMERICAN VERTICAL DATUM
NBS NATIONAL BUREAU OF STANDARDS
NC NORMALLY CLOSED
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA NATIONAL FIRE PROTECTION ASSOCIATION
NF NEAR FACE
NIC NOT IN CONTRACT
NO NUMBER OR NORMALLY OPEN
NPS NOMINAL PIPE SIZE (FORMERLY I.P.S.)
NPT NATIONAL PIPE THREAD
NRS NON-RISING STEM
NS NEAR SIDE
NTS NOT TO SCALE

OC ON CENTER
OD OUTSIDE DIAMETER
OF OVERFLOW OR OUTSIDE FACE
OPER OPERATOR OR OPERATING
OPNG OPENING
OS & Y OUTSIDE SCREW AND YOKE
OVHD OVERHEAD
OZ OUNCE

P POLE OR PAGE
PAVMT PAVEMENT
PC PRIMARY CLARIFIER OR PORTLAND CEMENT
PCOTG PRESSURE CLEANOUT TO GRADE
PE POLYELECTROLYTE OR POLYMER
PEF PLANT EFFLUENT
PEN PENETRATION
PER PERIMETER

PG PRESSURE GAGE
pH HYDROGEN ION CONCENTRATION
PI POINT OF INTERSECTION
PIV POST INDICATOR VALVE
PL PLACES
PLAS PLASTER OR PLASTIC
PNEU PNEUMATIC
POB POINT OF BEGINNING
POE POINT OF END
PP POWER POLE
PLT PLANT
PNLBD PANEL BOARD
PPD POUNDS PER DAY
PPH POUNDS PER HOUR
PPM PARTS PER MILLION
PR PAIR
PRC POINT OF REVERSE CURVATURE
PRE PREVIOUS
PRESS PRESSURE
PRV PRESSURE REGULATING, RELIEF OR REDUCING VALVE
PS PRESSURE SWITCH
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PSIA POUNDS PER SQUARE INCH ABSOLUTE
PSIG POUNDS PER SQUARE INCH GAUGE
PT POINT OR POINT OF TANGENCY
PV PLUG VALVE
PVC POLYVINYL CHLORIDE
PW POTABLE WATER
PWR POWER

RAD RADIUS
RADN RADIATION
RAG RETURN AIR GRILLE
RC REINFORCED CONCRETE
RCA RADIOLOGICAL CONTROLLED AREA
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN, ROUND, OR ROAD
RDWD REDWOOD
RDCR REDUCER
RECM RECOMMENDATION
REF REFERENCE OR REFER
REG REGULATING
REINF REINFORCE OR REINFORCED
RE-STL REINFORCING STEEL
REQD REQUIRED
RET RETURN
REV REVISION
RF RAISED FACE
RLF RELIEF
RM ROOM
ROS RATE OF SLOPE
RPM REVOLUTIONS PER MINUTE OR REINFORCED PLASTIC MORTAR
RR RAILROAD
RT RIGHT
RW RAW WATER
R/W RIGHT OF WAY
RWL RAINWATER LEADER

S SOUTH
SA SAMPLE
SC SPARE CHEMICAL OR SECONDARY CLARIFIER
SCC SOLIDS CONTACT CLARIFIER
SCD SCREWED
SCFM STANDARD CUBIC FEET PER MINUTE
SCH SCHEDULE
SCHED SCHEDULE
SDR STORM DRAINS
SCA SOIL CONTAMINATION AREA
SEC SECONDARY
SECT SECTION
SER SERIES
SER SK SERVICE SINK
SETT SETTLING
SH SHOWER
SHT SHEET
SIM SIMILAR
SL SLUDGE
SLP SLOPE
SLV SLEEVE
SP SPACING
SPECS SPECIFICATIONS
SQ SQUARE
SS SANITARY SEWER
SST STAINLESS STEEL
SSU SECONDS SAYBOLT UNIVERSAL
STA STATION
STC SLEEVE-TYPE COUPLING
STD STANDARD
STL STEEL
STM STEAM
STN STAINLESS
SST STAINLESS STEEL
STR TRD STAIR TREAD
STRUCT STRUCTURAL OR STRUCTURE
SUBST SUBSTITUTE
SUCT SUCTION
SURV SURVEY
SV SOLENOID VALVE
SW SANITARY WATER
SWR SIDEWALL REGISTER
SYM SYMMETRICAL OR SYMBOL
SYS SYSTEM

T THERMOSTAT OR TANGENT
TB THRUST BLOCK
T & B TOP AND BOTTOM
TBC TOP BACK OF CURB
TBE THREAD BOTH ENDS
TBM TEMPORARY BENCH MARK
TC TOP OF CURB
TDH TOTAL DYNAMIC HEAD
TELE TELEPHONE
TEMP TEMPORARY
TERM TERMINAL
T & G TONGUE AND GROOVE
THK THICK OR THICKNESS
THD THREADED
THRHLD THRESHOLD
TK TANK
TOE THREAD ONE END
TOG TOP OF GRATING
TOL TOLERANCE
TOS TOP OF STEEL
TOW TOP OF WALL
TP TELEPHONE POLE OR TELEGRAPH POLE
TRANS TRANSITION
TRTMT TREATMENT
TV THERMOSTATIC VALVE
TW THERMOMETER WELL
TYP TYPICAL

UBC UNIFORM BUILDING CODE
UC UNDER-CROSSING
UGND UNDERGROUND
UGC UNDERGROUND CONDUIT
UH UNIT HEATER
UL UNDERWRITERS LABORATORIES
UNO UNLESS NOTED OTHERWISE
UP UTILITY POLE
UR URINAL
USACE UNITED STATES ARMY CORP OF ENGINEERS

V VENT, VOLT
VAC VACUUM
VAR VARIES OR VARIABLE
VCP VITRIFIED CLAY PIPE
VERT VERTICAL
VLV VALVE
VOL VOLUME
VPC VERT POINT OF CURVATURE
VPI VERT POINT OF INTERSECTION
VPRC VERT POINT OF REVERSE CURVE
VPT VERT POINT OF TANGENCY
VTC VENT TO CEILING
VTR VENT THROUGH ROOF

W WEST OR WIDTH
W/ WITH
WC WATER COLUMN OR WATER CLOSET
WCO WALL CLEANOUT
WD WOOD
WOG WATER, OIL, GAS
W/O WITHOUT
WS WATER SURFACE
WSCOT WAINSCOT
WSTP WATER STOP
WT WEIGHT
WWF WELDED WIRE FABRIC
WWM WELDED WIRE MESH

XFR TRANSFER
XFMR TRANSFORMER
XING CROSSING
XMTR TRANSMITTER
XS EXTRA STRONG

YD YARD

NOTES

1. SOME ABBREVIATIONS SHOWN ON THIS DRAWING MAY NOT BE USED ON THESE CONTRACT DRAWINGS.
2. FOR ABBREVIATIONS NOT LISTED, SEE "ABBREVIATIONS FOR USE ON DRAWINGS AND TEXT" PUBLISHED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) UNDER STANDARD ABBREVIATIONS Y14.38.
3. ELECTRICAL ABBREVIATIONS SHOWN ON DRAWING 0600X-DD-E0105.
4. PIPING ABBREVIATIONS SHOWN ON DRAWING 0600X-DD-M0023.

0600X-SC-G0524 05-19 005
500X524 A00

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/06	ISSUED FOR CONSTRUCTION	JJV	CJB		BH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ABBREVIATIONS

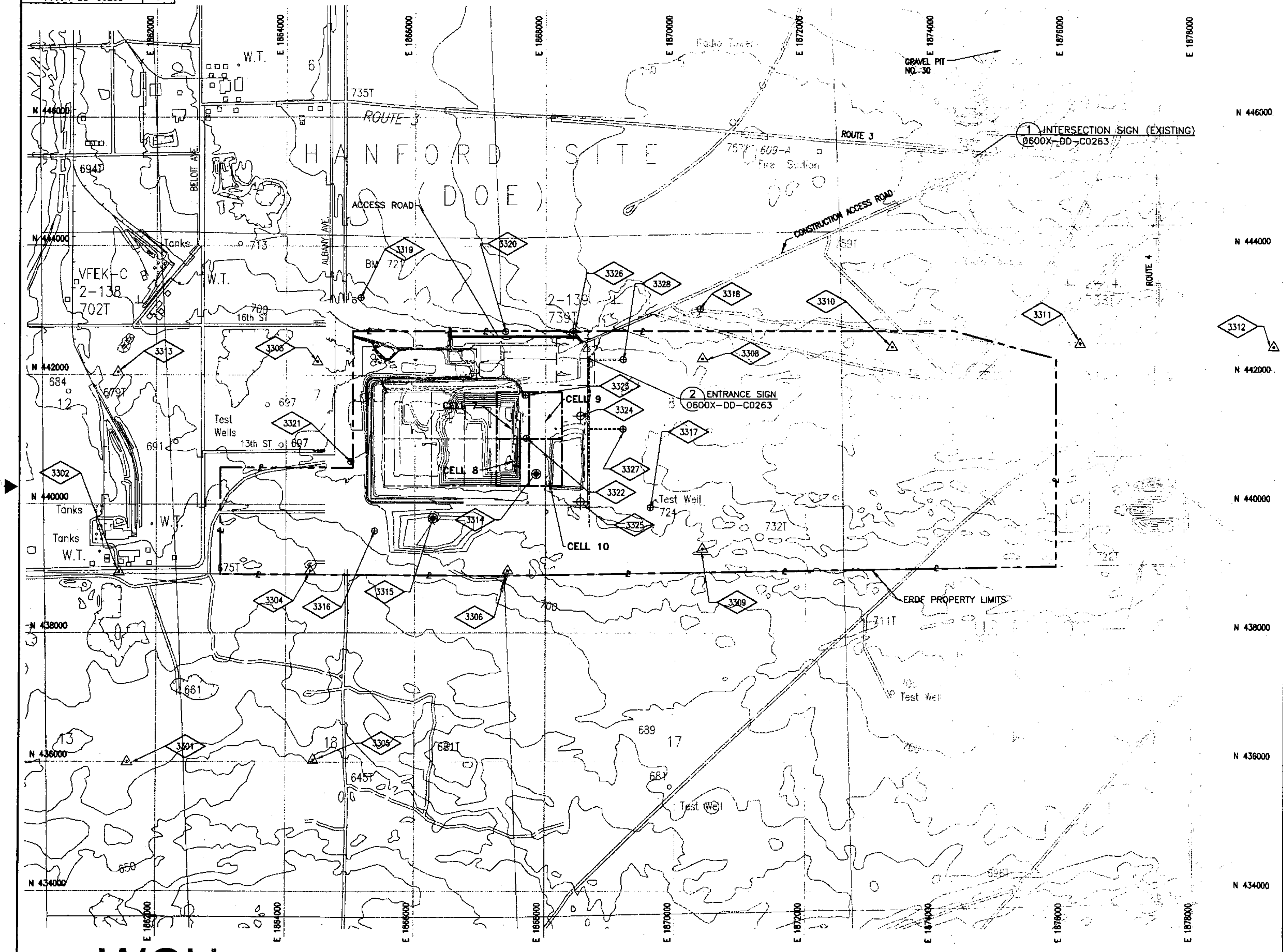
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDG0029.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-G0029	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15594 SHT01	600G	0000

DRAWING NO.	REV. NO.
0600X-DD-C0258	0



NOTES

1. REGIONAL TOPOGRAPHY SHOWN IS FROM THE ORIGINAL SURVEY FOR THE ERDF SITE PRIOR TO CONSTRUCTION OF CELLS 1,2, 3 AND 4. SOME VARIATION WILL BE FOUND IN EXISTING CONTOURS AND ELEVATIONS FROM THAT SHOWN.
2. TOPOGRAPHY IN THE VICINITY OF THE PROJECT IS FROM FIELD SURVEY FROM ROGERS SURVEYING, INC., JULY 2006.
3. TOPOGRAPHY IS SHOWN IN FEET ABOVE SEA LEVEL.
4. SUBCONTRACTOR ACCESS TO PROJECT SITE SHALL BE FROM THE CONSTRUCTION ACCESS ROAD.
5. SUBCONTRACTOR SHALL VERIFY ALL CONTOURS AND ELEVATIONS THAT EFFECT CONSTRUCTION ACTIVITIES.
6. SURVEY DATUM
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
7. SEE DRAWING 0600X-DD-C0261 FOR COORDINATE INFORMATION.

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0600X-SC-G0529 06-19 006
500X524A00

SCALE
0 750 1500 feet
CONTOUR INTERVAL: 10 FT

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EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJH	CJB		BJH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
OVERALL SITE PLAN

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0258.DWG

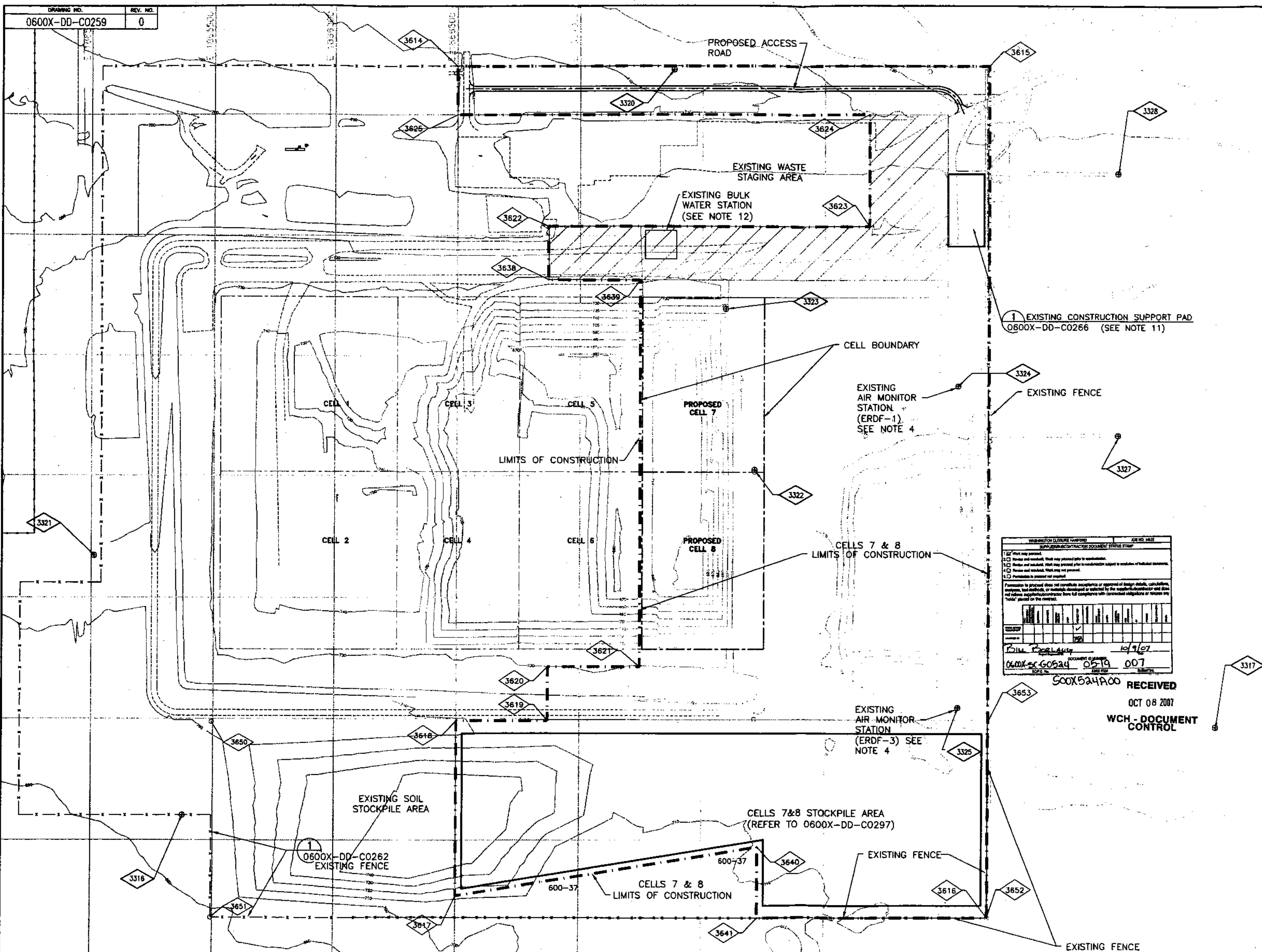
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0258	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15595 SHT01	600G	0110

River Corridor Closure Contract
WCH
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0259	0



WASHINGTON CLOSURE HANFORD SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Borlaug 10/9/07

0600X-SC-G0524 0519 007

S00X524A00

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NOTES

1. ALL WORK AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEARED UNLESS OTHERWISE NOTED. OBTAIN CONTRACTO APPROVAL PRIOR TO CLEARING AREAS.
2. PROTECT AND MAINTAIN EXISTING FENCE AND GATE. AT ALL TIMES. WHEN THE ERDF PERIMETER FENCE IS NOT CONTINUOUS AND SOUND, SUBCONTRACTOR SHALL PROVIDE AND MAINTAIN MANNED SECURITY. ONE SECURITY OFFICER SHALL BE PROVIDED AT EACH UNSECURED LOCATION AND FOR EVERY 100m(328 FT) OF UNSECURED FENCE LINE.
3. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
4. SUBCONTRACTOR SHALL PROTECT AIR MONITORING STATIONS.
5. SEE DWG 0600X-DD-C0261 FOR COORDINATE INFORMATION.
6. SHARED ACCESS AREA WITH ERDF OPERATIONS. SUBCONTRACTOR SHALL COORDINATE ACTIVITIES WITH CONTRACTOR. AREA MUST BE ACCESSIBLE BY ERDF OPERATIONS AT ALL TIMES UNLESS AUTHORIZED OTHERWISE BY THE CONTRACTOR.
7. EXACT STOCKPILE BOUNDARIES VARY DUE TO ERDF OPERATION. A GENERAL REPRESENTATION IS SHOWN.
8. THE LIMITS OF CONSTRUCTION INDICATE THE AREA WITHIN WHICH THE SUBCONTRACTOR HAS FREE ACCESS. IN SOME CASES, THE SUBCONTRACTOR MAY BE REQUIRED TO PERFORM WORK OUTSIDE THE LIMITS SHOWN (e.g. PULLING WIRE THROUGH EXISTING PULL BOXES AND TIE NEW WORK INTO EXISTING) IN THESE INSTANCES THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR 48 HOURS IN ADVANCE AND SHALL MINIMIZE THE TIME REQUIRED TO PERFORM THE WORK.
9. TOPOGRAPHY IN THE VICINITY OF THE PROJECT IS FROM FIELD SURVEY BY ROGERS SURVEYING INC., JULY 2006.
10. CONSTRUCTION ACCESS GATE AND ROAD MAY BE USED BY OTHERS.
11. CONTRACTOR AND SUBCONTRACTOR TRAILERS TO BE LOCATED AT CONSTRUCTION SUPPORT PAD.
12. SUBCONTRACTOR MAY CONNECT TO EXISTING BULK WATER STATION LINE. SUBCONTRACTOR MAY PROVIDE AND INSTALL PIPELINE TO SUPPORT SUBCONTRACTOR'S WORK.

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0 100' 200' 400'

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JOHN CARL BROST, STATE OF WASHINGTON, 42158 REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ DSG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJV	CJB		JOH	N/A	RB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
CONSTRUCTION LIMITS AND FENCE LOCATION-CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0259.DWG

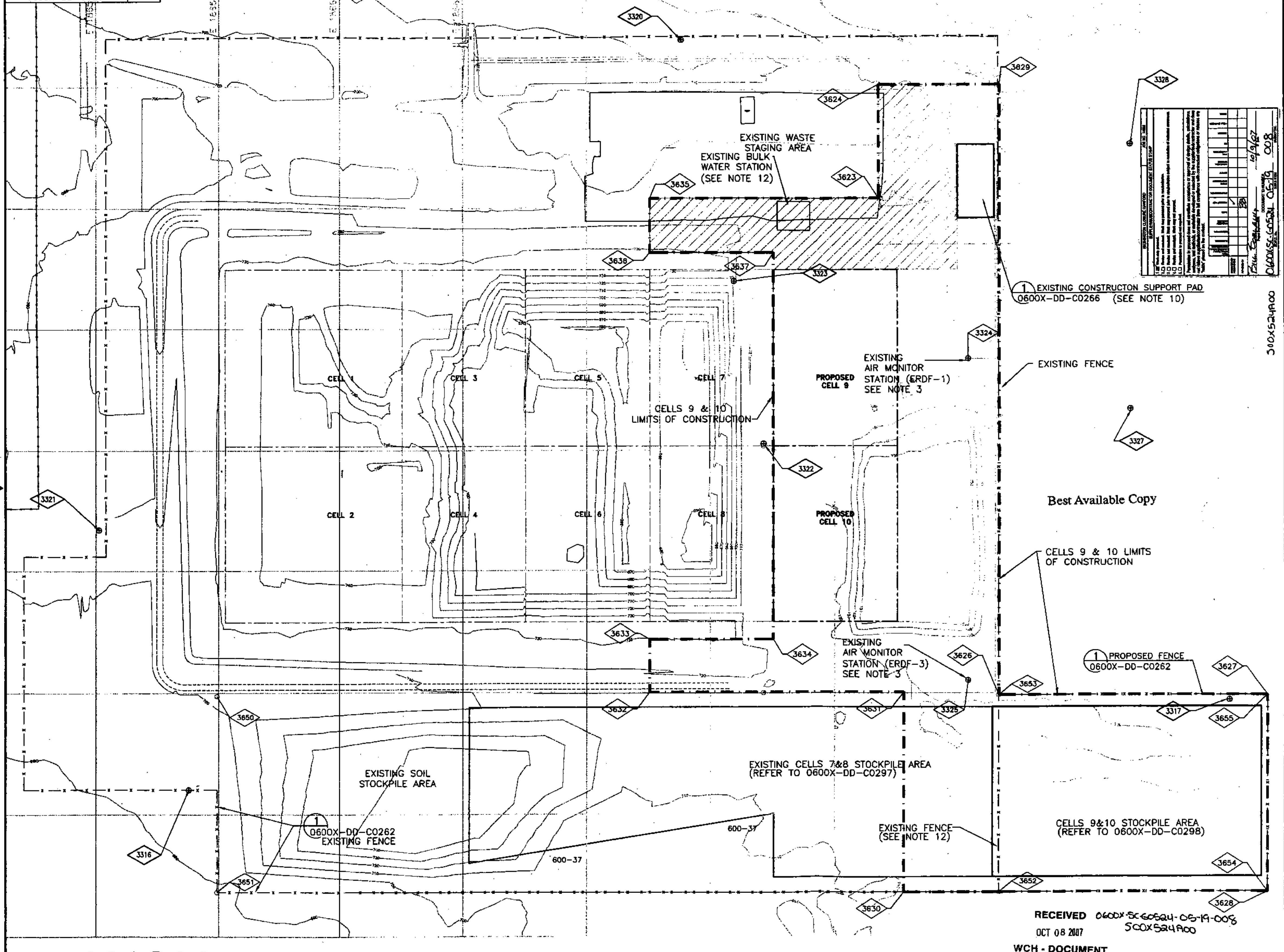
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0259	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15596 SHT01	600G	0110

River Corridor Closure Contract
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0260	0



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OCT 08 2007
WCH - DOCUMENT CONTROL

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RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15597 SHT01	600G	0501

NOTES

1. ALL WORK AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEARED UNLESS OTHERWISE NOTED. OBTAIN CONTRACTOR APPROVAL PRIOR TO CLEARING AREAS.
2. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
3. SUBCONTRACTOR SHALL PROTECT AIR MONITORING STATIONS.
4. SEE DWG 0600X-DD-C0261 FOR COORDINATE INFORMATION.
5. SHARED ACCESS AREA WITH ERDF OPERATIONS. SUBCONTRACTOR SHALL COORDINATE ACTIVITIES WITH CONTRACTOR. AREA MUST BE ACCESSIBLE BY ERDF OPERATIONS AT ALL TIMES UNLESS AUTHORIZED OTHERWISE BY THE CONTRACTOR.
6. EXACT STOCKPILE BOUNDARIES VARY DUE TO ERDF OPERATION. A GENERAL REPRESENTATION IS SHOWN.
7. THE LIMITS OF CONSTRUCTION INDICATE THE AREA WITHIN WHICH THE SUBCONTRACTOR HAS FREE ACCESS. IN SOME CASES, THE SUBCONTRACTOR MAY BE REQUIRED TO PERFORM WORK OUTSIDE THE LIMITS SHOWN (e.g. PULLING WIRE THROUGH EXISTING PULL BOXES AND TIE NEW WORK INTO EXISTING) IN THESE INSTANCES THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR 48 HOURS IN ADVANCE AND SHALL MINIMIZE THE TIME REQUIRED TO PERFORM THE WORK.
8. TOPOGRAPHY IN THE VICINITY OF THE PROJECT IS FROM FIELD SURVEY BY ROGERS SURVEYING, INC., JULY 2006.
9. CONSTRUCTION ACCESS GATE AND ROAD MAY BE USED BY OTHERS.
10. CONTRACTOR AND SUBCONTRACTOR TRAILERS TO BE LOCATED AT CONSTRUCTION SUPPORT PAD.
11. SUBCONTRACTOR MAY CONNECT TO EXISTING BULK WATER STATION LINE. SUBCONTRACTOR MAY PROVIDE AND INSTALL PIPELINE TO SUPPORT SUBCONTRACTORS WORK.
12. RELOCATE EXISTING FENCE AND GATE TO NEW FENCE LINE. ADDITIONAL FENCING WILL BE REQUIRED TO COMPLETE THE FENCE. AT ALL TIMES WHEN THE ERDF PERIMETER FENCE IS NOT CONTINUOUS AND SOUND, THE SUBCONTRACTOR SHALL PROVIDE MANNED SECURITY. ONE SECURITY OFFICER SHALL BE PROVIDED AT EACH LOCATION AND FOR EVERY 100m(328 FT) OF UNSECURED FENCE LINE.

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JOHN CARL BREST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	Sm	BJH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
CONSTRUCTION LIMITS AND FENCE LOCATION-CELLS 9&10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0260.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0260	0

DRAWING NO.	REV. NO.
0600X-DD-C0261	0

COORDINATES

POINT NO.	DESCRIPTION	NORTH	EAST	ELEVATION	REMARKS
	EXISTING & GENERAL SITE FEATURES				
3301	SURVEY CONTROL POINT HSM-149	436000.7378	1861560.7550	669.29	
3302	SURVEY CONTROL POINT HSM-142	438947.3668	1861429.3610	678.071	
3303	SURVEY CONTROL POINT HSM-136	442215.0768	1864490.3260	690.541	
3304	SURVEY CONTROL POINT HSM-143	438966.7238	1864376.9180	680.440	
3305	SURVEY CONTROL POINT HSM-150	436034.9668	1864430.9920	655.77	
3306	SURVEY CONTROL POINT HSM-144	438966.6118	1867428.5820	704.728	
3308	SURVEY CONTROL POINT HSM-138	442270.2478	1870411.8430	733.576	
3309	SURVEY CONTROL POINT HSM-145	439312.8478	1870414.9040	722.01	
3310	SURVEY CONTROL POINT HSM-139	442458.0198	1873311.5000	745.93	
3311	SURVEY CONTROL POINT HSM-140	442510.2408	1876208.3110	739.27	
3312	SURVEY CONTROL POINT HSM-141	442459.5518	1879193.4860	744.91	
3313	SURVEY CONTROL POINT HSM-135	442045.8388	1861410.8770	692.42	
3314	BORING 699-35-68B	440475.56	1867862.63	713.90	ABANDONED BY OTHERS
3315	BORING 699-35-69B	439789.36	1866279.31	701.40	
3316	WELL 699-35-70	439591.81	1865375.65	692.10	
3317	WELL 699-35-66	439958.15	1869612.46	732.50	
3318	WELL 699-36-70A	440666.01	1865009.84	702.74	
3319	WELL 6-38-70	443206.08	1865160.94	714.25	
3320	WELL 699-38-68A	442688.78	1867389.45	718.17	
3321	WELL 6-38-65	443044.13	1870374.64	756.92	
3322	WELL 699-36-67	441027.00	1867715.00		SEE NOTE 2
3323	WELL 696-37-68	441697.76	1867695.67		SEE NOTE 2
3324	AIR MONITOR N-517 T353 (ERDF-1)	441376.40	1868543.50		
3325	AIR MONITOR N-517 T351 (ERDF-3)	440048.20	1868543.50		
3327	WELL	441170.80	1869191.80		
3328	WELL	442257.88	1869191.88		
	MANHOLE LOCATIONS				
3525	MANHOLE #28	441859.40	1867009.80	730.30	AS-BUILT
3527	MANHOLE #29	440163.20	1866998.10	730.30	AS-BUILT
3528	MANHOLE #30	441857.00	1867504.00	730.30	TOP OF MANHOLE ELEV.
3529	MANHOLE #31	440177.00	1867504.00	730.30	TOP OF MANHOLE ELEV.
3530	MANHOLE #32	441857.00	1868004.00	730.30	TOP OF MANHOLE ELEV.
3531	MANHOLE #33	440177.00	1868004.00	730.30	TOP OF MANHOLE ELEV.
	FUTURE SITE FEATURES				
3614	LIMITS OF CONSTRUCTION-CELLS 7 & 8	442699.69	1866500.00		
3615	LIMITS OF CONSTRUCTION-CELLS 7 & 8	442699.69	1868671.15		
3616	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439182.66	1868666.15		
3617	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439272.49	1866500.00		
3618	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439992.28	1866500.00		
3619	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439992.28	1866871.15		
3620	LIMITS OF CONSTRUCTION-CELLS 7 & 8	440217.24	1866871.15		
3621	LIMITS OF CONSTRUCTION-CELLS 7 & 8	440216.81	1867244.50		
3622	LIMITS OF CONSTRUCTION-CELLS 7 & 8	442038.89	1867244.50		
3623	LIMITS OF CONSTRUCTION-CELLS 7,8,9,10	442038.89	1868178.20		
3624	LIMITS OF CONSTRUCTION-CELLS 7,8,9,10	442500.00	1868178.20		
3625	LIMITS OF CONSTRUCTION-CELLS 7 & 8	442500.00	1866500.00		
3626	LIMITS OF CONSTRUCTION-CELLS 9 & 10	439987.66	1868667.29		
3627	LIMITS OF CONSTRUCTION-CELLS 9 & 10	439987.66	1869750.00		
3628	LIMITS OF CONSTRUCTION-CELLS 9 & 10	439182.66	1869750.00		
3629	LIMITS OF CONSTRUCTION-CELLS 9 & 10	442500.00	1868670.87		
3630	LIMITS OF CONSTRUCTION-CELLS 9 & 10	439182.66	1868281.00		
3631	LIMITS OF CONSTRUCTION-CELLS 9 & 10	440000.00	1868281.00		
3632	LIMITS OF CONSTRUCTION-CELLS 9 & 10	440000.00	1867254.00		
3633	LIMITS OF CONSTRUCTION-CELLS 9 & 10	440216.81	1867254.00		
3634	LIMITS OF CONSTRUCTION-CELLS 9 & 10	440216.81	1867754.00		
3635	LIMITS OF CONSTRUCTION-CELLS 9 & 10	442038.89	1867254.00		
3636	LIMITS OF CONSTRUCTION-CELLS 9 & 10	441817.19	1867254.00		
3637	LIMITS OF CONSTRUCTION-CELLS 9 & 10	441817.19	1867754.00		
3638	LIMITS OF CONSTRUCTION-CELLS 7 & 8	441817.19	1866871.15		
3639	LIMITS OF CONSTRUCTION-CELLS 7 & 8	441817.19	1867244.50		
3640	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439473.17	1867730.10		
3641	LIMITS OF CONSTRUCTION-CELLS 7 & 8	439182.66	1867730.10		

POINT NO.	DESCRIPTION	NORTH	EAST	ELEVATION	REMARKS
3650	EXISTING FENCE CORNER	439987.66	1865493.10		
3651	EXISTING FENCE CORNER	439182.66	1865493.10		
3652	EXISTING FENCE CORNER	439182.66	1868666.15		
3653	EXISITING FENCE CORNER	439987.66	1868667.29		
3654	PROPOSED CELL 9,10 FENCE CORNER	439182.66	1869750.00		
3655	PROPOSED CELL 9,10 FENCE CORNER	439987.66	1869750.00		
	YARD PIPING				
3901	TEE	441912.93	1867859.78		AS-BUILT
3902	VALVE	441988.94	1867859.78		AS-BUILT
3903	FIRE HYDRANT	441953.61	1867849.43		AS-BUILT
3906	BLIND FLANGE (END OF PIPE)	441924.30	1867024.60		AS-BUILT
3907	254mm(10") ELBOW	441857.00	1867014.24		AS-BUILT
3908	END DOUBLE CONTAINMENT	441857.00	1867010.24		AS-BUILT
3909	END DOUBLE CONTAINMENT	440177.00	1867010.24		AS-BUILT
3910	254mm(10") ELBOW	440177.00	1867014.24		AS-BUILT
3911	BLIND FLANGE (END OF PIPE)	440089.80	1867012.60		AS-BUILT
3912	90° ELBOW TO BACKFLOW PREVENTER	441796.03	1867302.56		AS-BUILT
3913	BLIND FLANGE (END OF PIPE)	441924.30	1867528.36		CELL 7
3914	254mm(10") ELBOW	441857.00	1867518.00		CELL 7
3915	END DOUBLE CONTAINMENT	441857.00	1867514.00		CELL 7
3916	END DOUBLE CONTAINMENT	440177.00	1867514.00		CELL 8
3917	254mm(10") ELBOW	440177.00	1867518.00		CELL 8
3918	BLIND FLANGE (END OF PIPE)	440089.80	1867516.36		CELL 8
3919	BLIND FLANGE (END OF PIPE)	441892.20	1868078.97		CELL 9
3920	254mm(10") ELBOW	441857.00	1868018.00		CELL 9
3921	END DOUBLE CONTAINMENT	441857.00	1868014.00		CELL 9
3922	END DOUBLE CONTAINMENT	440177.00	1868014.00		CELL 10
3923	254mm(10") ELBOW	440177.00	1868018.00		CELL 10
3924	BLIND FLANGE (END OF PIPE)	440052.64	1868015.66		CELL 10

NOTES

1. COORDINATES FOR THE TRENCH CELLS ARE SHOWN ON DRAWINGS 0600X-DD-C0269, C0270, C0271, C0285, C0286, C0287, C0288, C0297 AND C0298.
2. DECOMMISSIONED GROUNDWATER MONITORING WELLS. SUBCONTRACTOR SHALL REMOVE CASING DURING EXCAVATION OF CELLS 7 AND 8. CASING WAS PERFORATED IN 10-FOOT SECTIONS DURING DECOMMISSIONING. CASING SHALL BE PLACED IN ROLL ON/ROLL OFF CONTAINERS PROVIDED BY THE CONTRACTOR. CONTRACTOR WILL DISPOSE OF CASING.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP
Bill Borlaug 10/9/07
DOCUMENT ID NUMBER: 0600X-SC-G0524 05-19 009
S00X524A00

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DOCUMENT CONTROL mlc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	Sm	RH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
COORDINATE TABLE

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0261.DWG

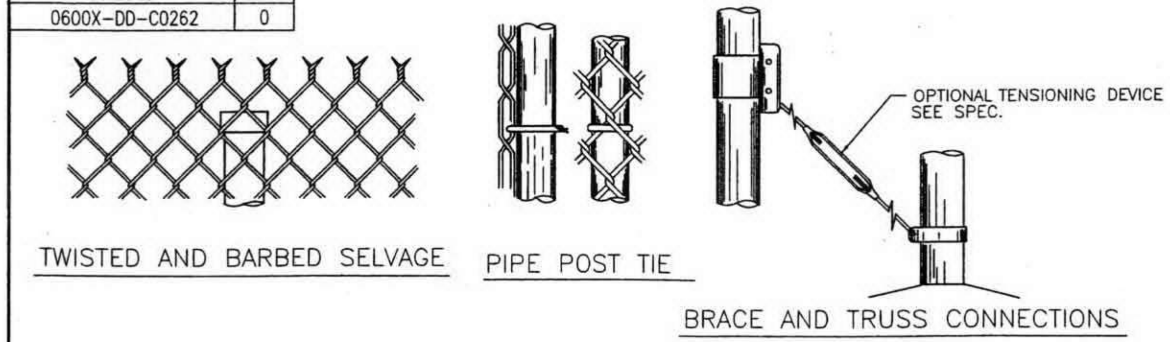
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0261	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15598 SHT01	600G	0110

River Corridor Closure Contract — Dedicated To Safety Excellence — WCH

DRAWING NO.	REV. NO.
0600X-DD-C0262	0



TWISTED AND BARBED SELVAGE

PIPE POST TIE

BRACE AND TRUSS CONNECTIONS

HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END, CORNER OR PULL POSTS	LENGTH OF LINE POSTS	SIZE OF POSTS (O.D.)				
				END, CORNER & PULL		LINE POST (MIN. SIZE)		
				PIPE OPTION	RECTANGULAR OPTION	PIPE OPTION	H POST OPTION	POST OPTION
2.44m (8')	SEE DETAIL	3.35 (11')+	3.25m (10'8")	76mm (3")	89mm (3 1/2")	64mm (2 1/2")	48mm X 41mm (1 7/8" X 1 5/8")	52mm X 43mm (2 1/16" X 1 11/16")

NOTES

1. COLLECTION FENCE SHALL BE INSTALLED ON 3-FT TALL OPERATIONS BERM.
2. CARE MUST BE TAKEN SUCH THAT UNDERLYING GEOSYNTHETIC LAYERS ARE NOT DAMAGED.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borlaug 10/9/07
0600X-SC-G0524 05-19 010

500X524A00

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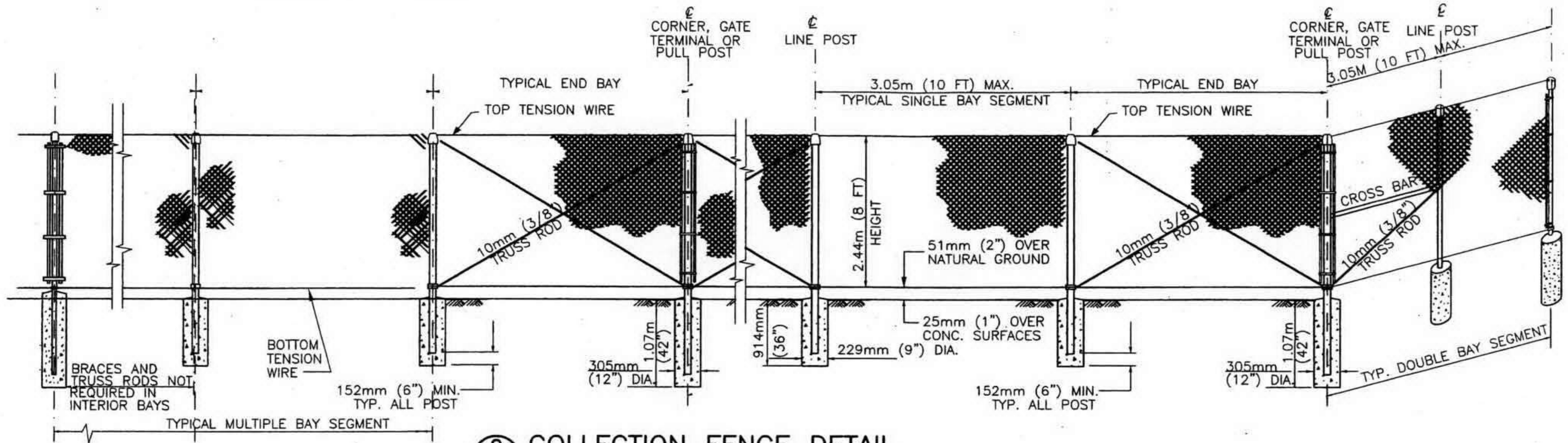

2 COLLECTION FENCE DETAIL
0600X-DD-C0277,C0283,C0283 NTS (SEE NOTES 1 AND 2)

DOCUMENT CONTROL mlc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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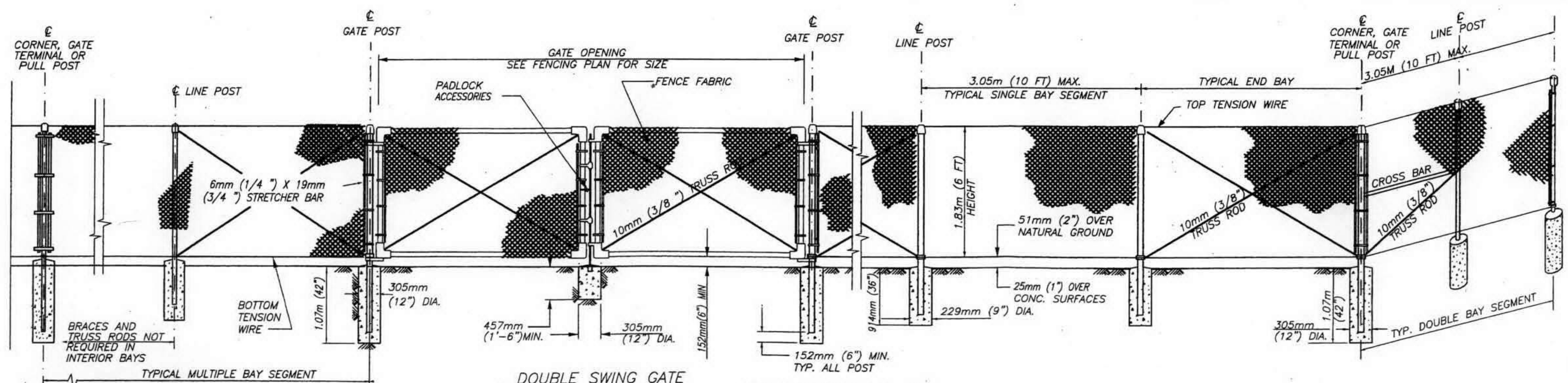
JOHN KARL BRIST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END, CORNER OR PULL POSTS	LENGTH OF LINE POSTS	SIZE OF POSTS (O.D.)				
				END, CORNER & PULL		LINE POST (MIN. SIZE)		
				PIPE OPTION	RECTANGULAR OPTION	PIPE OPTION	H POST OPTION	POST OPTION
1.83m (6')	SEE DETAIL	2.74m (9')+	2.64m (8'-8")	76mm (3")	89mm (3 1/2")	64mm (2 1/2")	48mm X 41mm (1 7/8" X 1 5/8")	52mm X 43mm (2 1/16" X 1 11/16")

GATES			
GATE POSTS AND GATE FRAMES			
HEIGHT	GATE OPENING	GATE POST	GATE FRAME
1.83m (6 FT) AND OVER	SINGLE TO 1.83m (6 FT) OR DOUBLE TO 3.66m (12 FT)	64mm (2 1/2")	51mm (2")
	SINGLE OVER 1.83m (6 FT) TO 3.96m (13 FT) OR DOUBLE OVER 3.66m (12 FT) TO 7.32m (24 FT)	102mm (4")	
	SINGLE OVER 3.96m (13 FT) TO 5.49m (18 FT) OR DOUBLE OVER 7.32m (24 FT) TO 10.97m (36 FT)	152mm (6")	
	SINGLE OVER 5.49m (18 FT) OR DOUBLE 10.97m (36 FT)	203mm (8")	



1 FENCE DETAIL
0600X-DD-C0259,C0260 NTS

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	[illegible]	BJH	N/A	[illegible]

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
7-10
FENCE DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0262.DWG

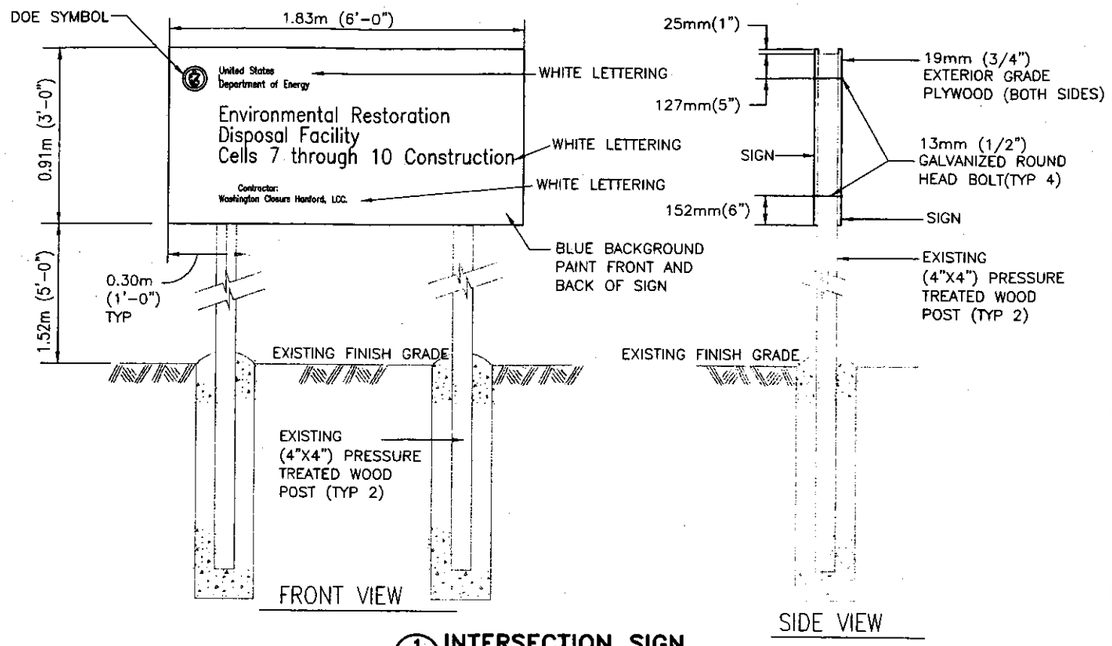
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0262	0

RECORD INFORMATION

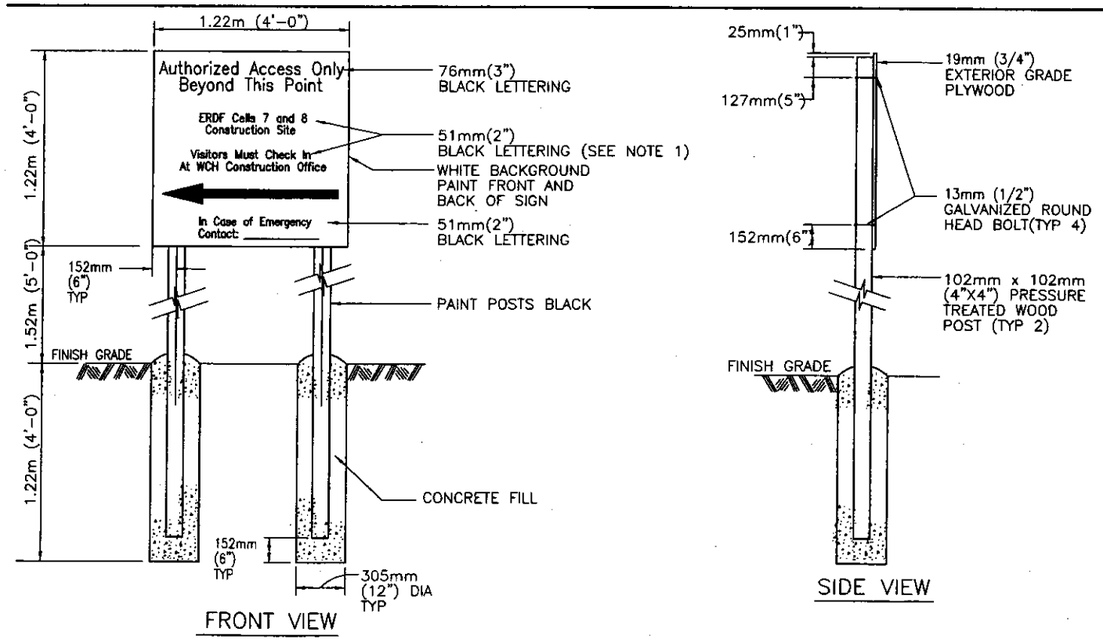
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15599 SHT01	600G	0200

RIVER CORRIDOR CLOSURE CONTRACT — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0263	0



1 INTERSECTION SIGN
0600X-DD-C0258 NTS

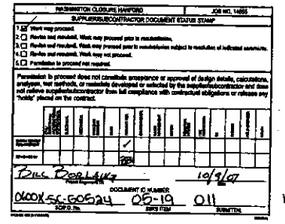


2 ENTRANCE SIGN
0600X-DD-C0258 NTS

Dedicated To Safety Excellence

NOTES

1. ENTRANCE SIGN SHALL INDICATE 7 & 8 OR 9 & 10 AS APPLICABLE.
2. TYPEFACE SHALL BE HELVETICA.
3. SIGN LAYOUT AND COLORS SHALL BE IN ACCORDANCE WITH DOE'S GRAPHIC DESIGN STANDARD.
4. INTERSECTION SIGN WILL BE MOUNTED ON BOTH SIDES OF POSTS, AND INSTALLED BY CONTRACTOR.
5. SUBCONTRACTOR SHALL INSTALL ENTRANCE SIGN.



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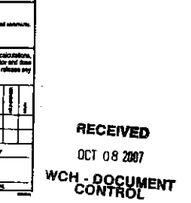


REV.	DATE	DESCRIPTION	DESIGN BY	DRAFT CHK	ORIG ENG'R	ENGR CHK	DIS ENG'R	PROJ ENG'R
0	9/24/07	ISSUED FOR CONSTRUCTION	JDV	KJB		BJH	N/A	RDB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SIGN DETAILS

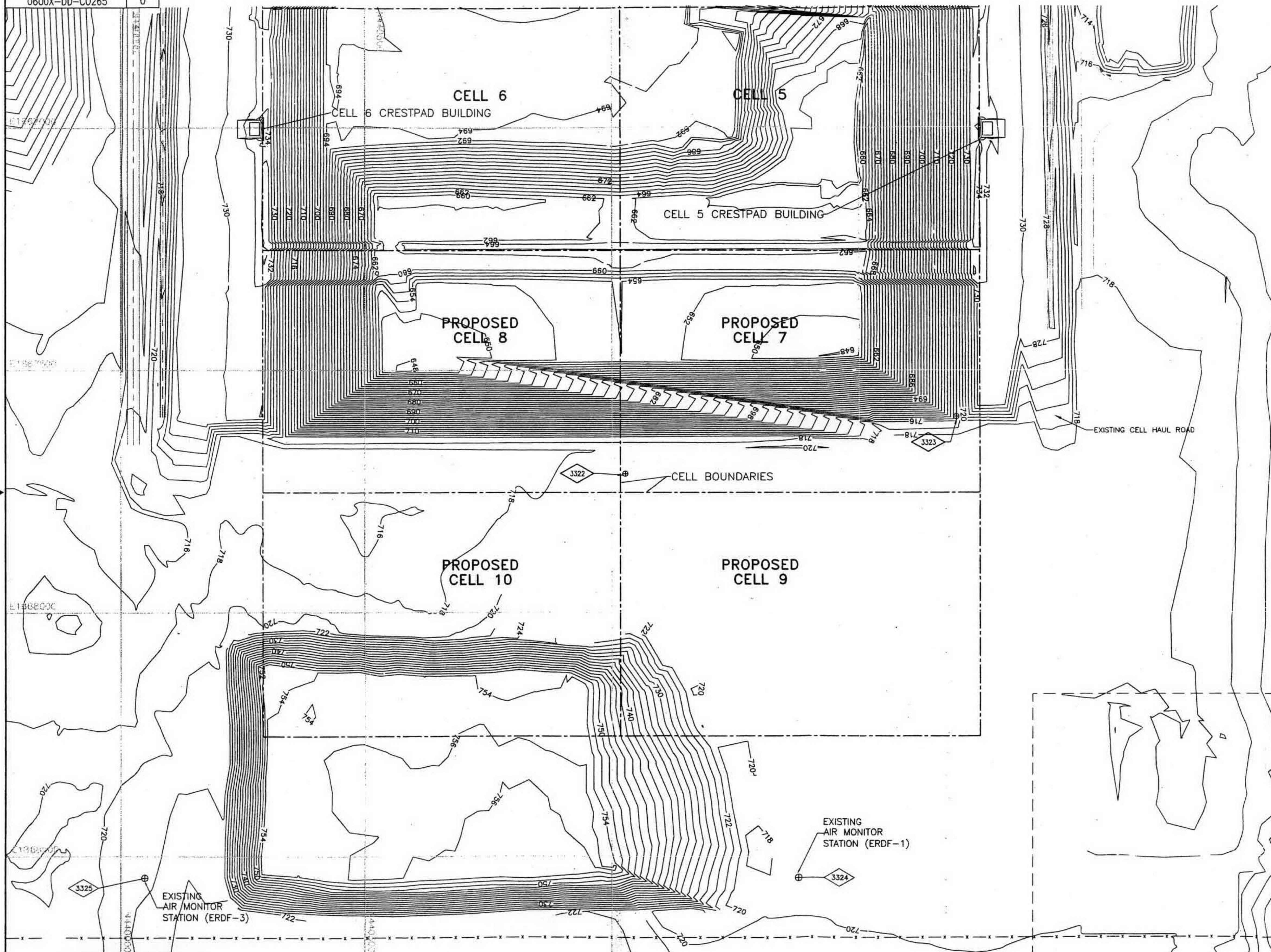
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0263.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0263	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15600 SHT01	600G	0200

DRAWING NO.	REV. NO.
0600X-DD-C0265	0



NOTES

1. EXISTING COUNTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCRONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN. SURVEY DATUM:
2. VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

N

0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☑ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
4. ☐ Revise and resubmit. Work may not proceed.
5. ☐ Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

Bill Borlaug 10/9/07
0600X-SC-G0524 05-19 012

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB		BJK	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7-10 EXISTING TOPOGRAPHY

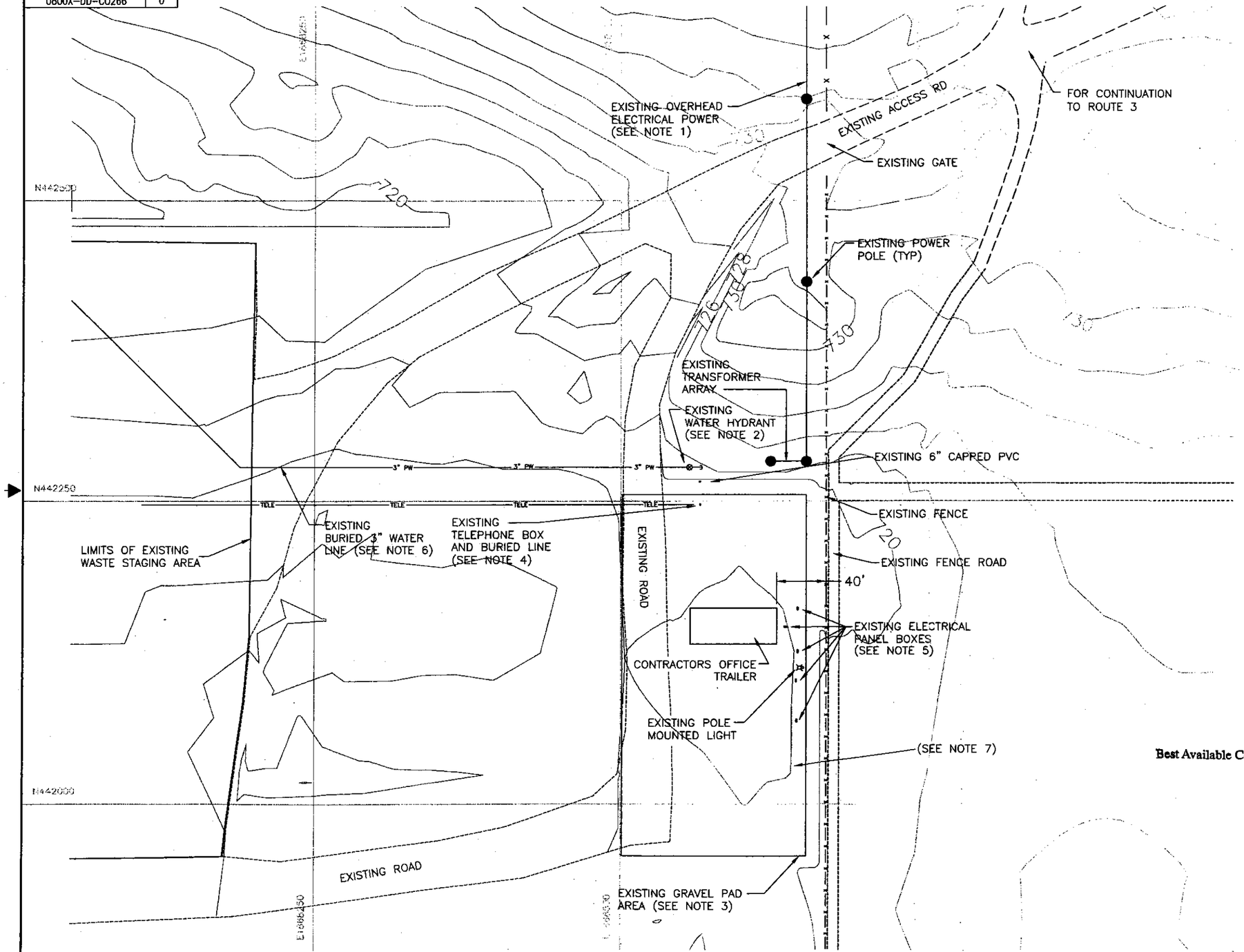
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0265.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0265	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15845 SHT01	600G	0110

DRAWING NO.	REV. NO.
0600X-DD-C0266	0

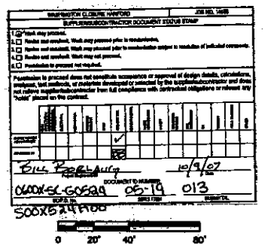


1 EXISTING CONSTRUCTON SUPPORT PAD
0600X-DD-C0259,C0260

Best Available Copy

NOTES

1. OVERHEAD ELECTRICAL POWER LINE. SUBCONTRACTOR SHALL NOT DISTURB THIS ENERGIZED POWER DISTRIBUTION LINE.
2. EXISTING ABOVE GRADE WATER HYDRANT WITH VALVE. SUBCONTRACTOR SHALL PROTECT FROM DAMAGE.
3. EXISTING GRAVEL PAD AREA TO BE REUSED FOR PROJECT FACITLITES. SUBCONTRACTOR SHALL BE REQUIRED TO REPLACE GRAVEL SURFACING IN AREAS THAT WERE PREVIOUSLY DISTURBED AND REGRADE TO DRAIN.
4. EXISTING TELEPHONE BOX. SUBCONTRACTOR SHALL PROTECT FROM DAMAGE.
5. EXISTING ELECTRICAL PANEL BOXES. SUBCONTRACTOR SHALL PROTECT FROM DAMAGE. SUBCONTRACTOR SHALL PROTECT ALL UNDERGROUND ELECTRICAL CONDUIT RUNS BACK TO THE EXISTING POLE MOUNTED TRANSFORMER ARRAY.
6. EXISTING BURIED ACTIVE 3" POTABLE WATER LINE. SUBCONTRACTOR SHALL PROTECT PIPE FROM DAMAGE.
7. SUBCONTRACTOR SHALL INSTALL OFFICE TRAILERS ON EXISTING CONSTRUCTION SUPPORT PAD.
8. TOPOGRAPHY SHOWN REPRESENTS CURRENT CONFIGURATION. CONTOUR INTERVAL IS 2 FEET.



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JOHN CARL BRADY — STATE OF WASHINGTON — 21139 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENGR'G CHK	ENGR'G APP	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CSB	[illegible]	[illegible]	N/A	[illegible]

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
PROJECT OFFICE TRAILER PLACEMENT

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0266.DWG

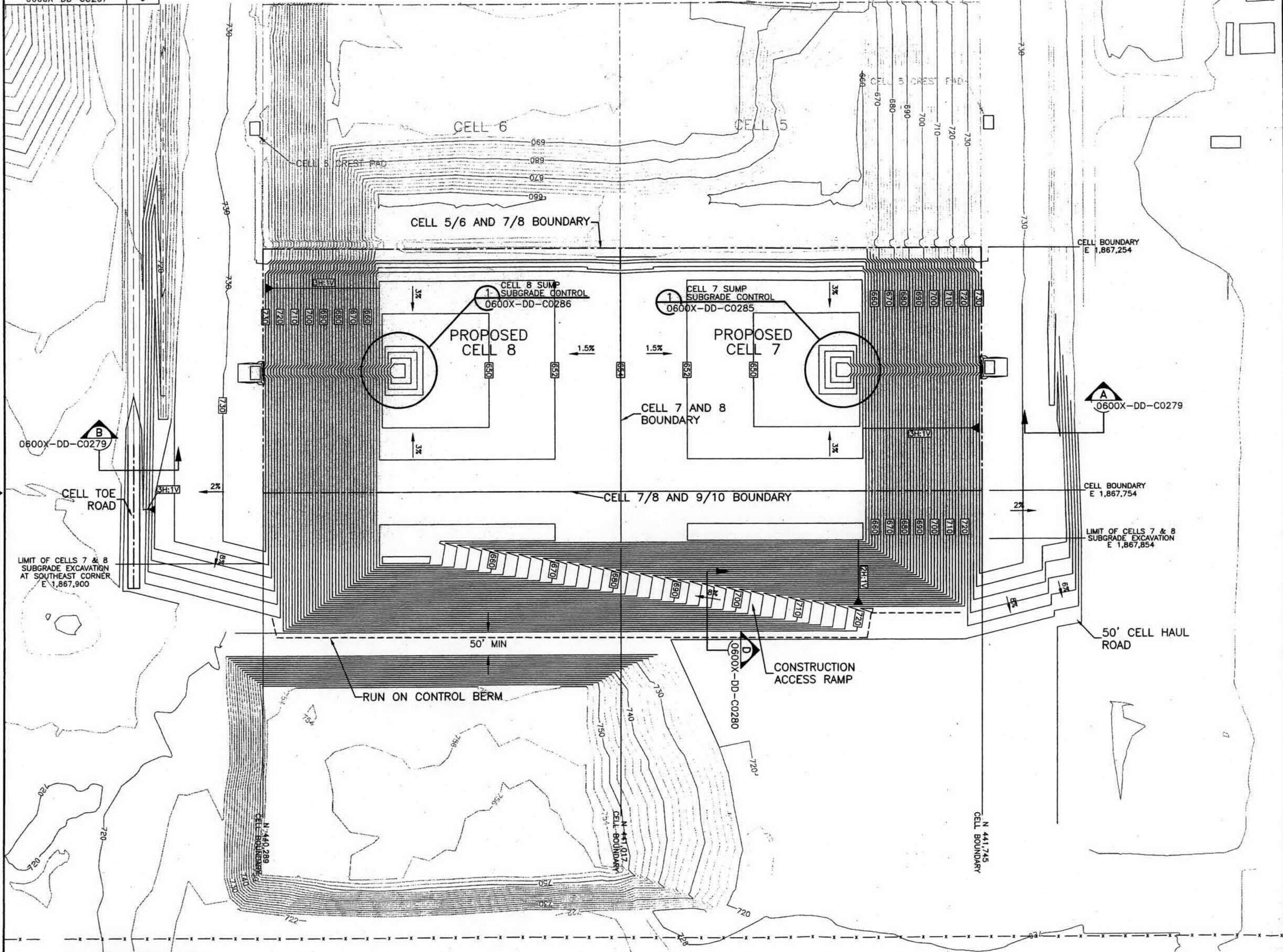
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0266	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15846 SHT01	600G	0110

Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0267	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTORS SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borlaug 10/9/07

0600X-SC-G0524 05-19 014

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JOHN CARL BRIGGS, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ENG'R	ENG'R CH'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CSB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUBGRADE & CELL BERM CONTOURS - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0267.DWG

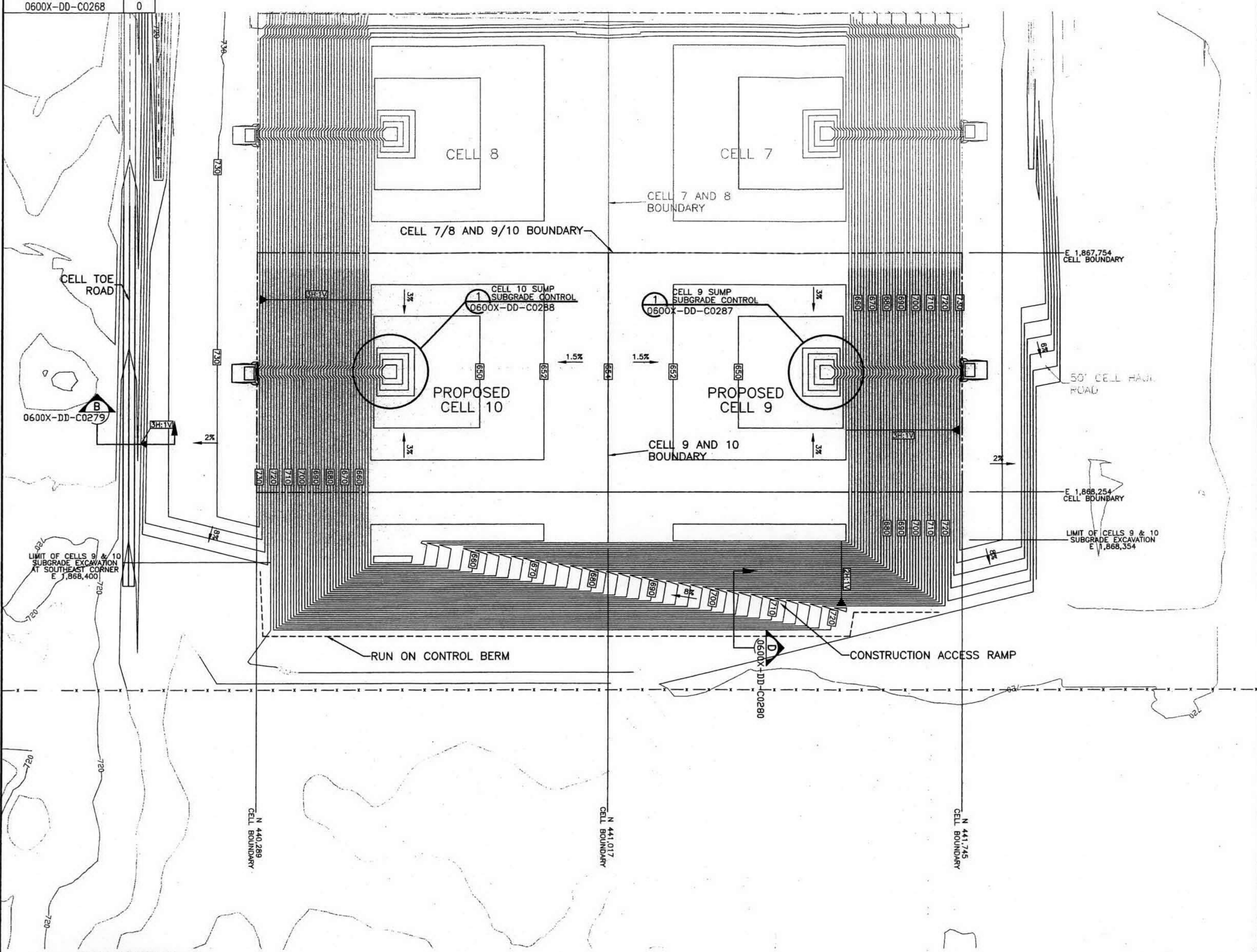
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0267	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15847 SHT01	600G	0111

River Corridor Closure Contract WCH Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0268	0



RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15848 SHT01	600G	0111

NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMITS OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC. DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

DOCUMENT CONTROL mec 10/11/07

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0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Boelaug 10/9/07
0600X-SC-G0524 05-19 015
S00X524A00

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JOHN CARL BRIESE — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CSB		BJH	N/A	JRS

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

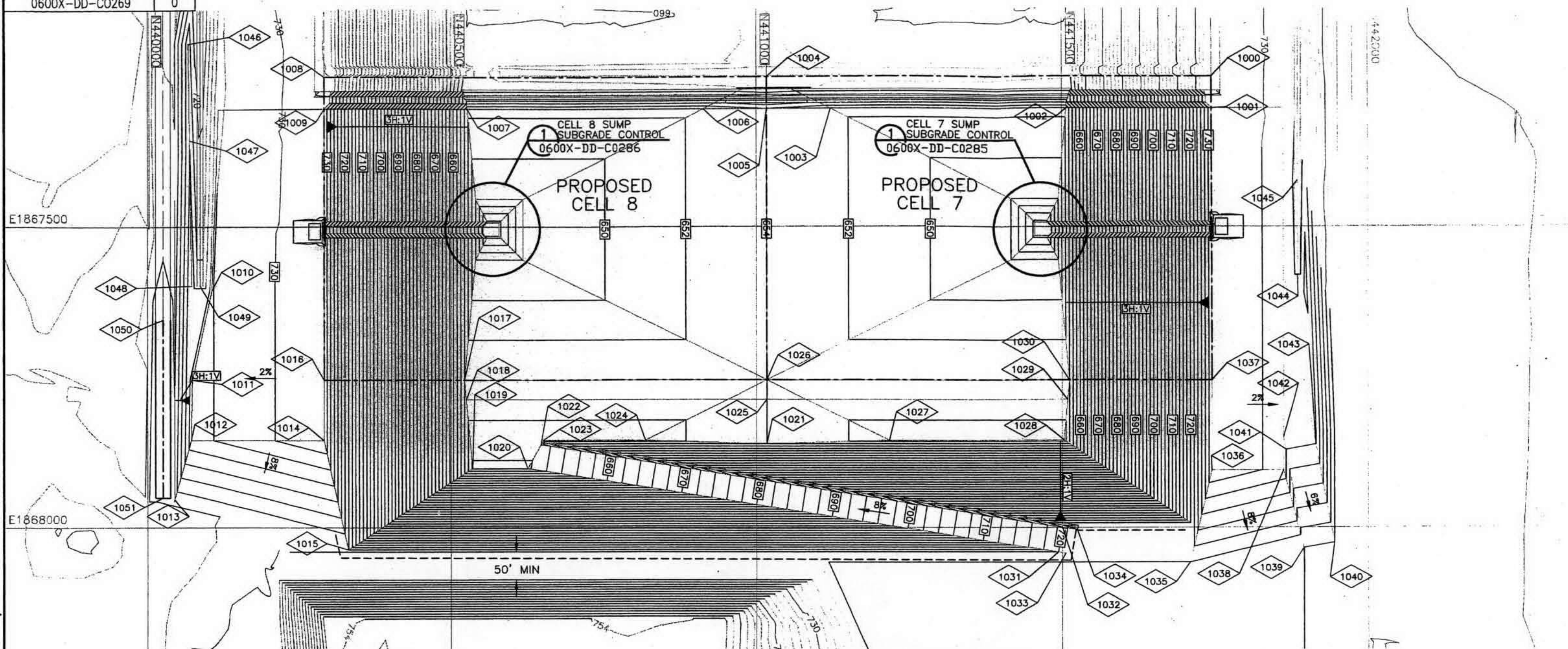
WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUBGRADE & CELL BERM CONTOURS - CELLS 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0268.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0268	0

DRAWING NO.	REV. NO.
0600X-DD-C0269	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

0 50' 100' 200'

SUBGRADE DESIGN CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	441744.90	1867254.00	733.96	CELL BOUNDARY FOR CELLS 5 & 7
1001	441744.90	1867306.00	731.64	SLOPE CREST TIE IN FOR CELLS 5 & 7
1002	441507.29	1867306.00	652.44	TOE OF SLOPE TIE IN FOR CELLS 5 & 7
1003	441121.00	1867306.00	652.44	GRADE BREAK TIE IN FOR CELLS 5 & 7
1004	441017.00	1867254.00	662.00	CELL BOUNDARY FOR CELLS 5, 6, 7, & 8
1005	441017.00	1867306.00	654.00	CELL BOUNDARY FOR CELLS 7 & 8 TIE IN
1006	440913.00	1867306.00	652.44	GRADE BREAK TIE IN FOR CELLS 6 & 8
1007	440526.71	1867306.00	652.44	TOE OF SLOPE TIE IN FOR CELLS 6 & 8
1008	440289.10	1867254.00	733.51	CELL BOUNDARY FOR CELLS 6 & 8
1009	440289.10	1867306.00	731.64	SLOPE CREST TIE IN FOR CELLS 6 & 8
1010	440104.32	1867605.44	727.95	GRADE BREAK
1011	440072.43	1867754.00	727.31	GRADE BREAK
1012	440070.84	1867854.00	727.28	GRADE BREAK
1013	440043.20	1867955.90	718.57	GRADE BREAK
1014	440289.10	1867854.00	731.64	SLOPE CREST - LIMIT OF OVERBUILD
1015	440330.03	1868037.36	718.00	SLOPE CREST - GRADE BREAK
1016	440289.10	1867754.00	731.64	SLOPE CREST - CELL BOUNDARY
1017	440522.04	1867754.00	654.00	TOE OF SLOPE - CELL BOUNDARY
1018	440524.91	1867786.00	653.04	TOE OF SLOPE - LIMIT OF CELL 8 OVERBUILD
1019	440535.22	1867900.56	649.60	TOE OF SLOPE - EDGE OF CELL 8 EXCAVATION
1020	440624.88	1867900.56	649.60	TOE OF SLOPE - EDGE OF CELL 8 EXCAVATION
1021	441017.00	1867860.00	654.00	TOE OF SLOPE-CELL 7 & 8 BOUNDARY
1022	440646.08	1867861.45	650.78	BASE OF CONSTRUCTION ACCESS RAMP BERM
1023	440650.12	1867854.00	651.00	BASE OF CONSTRUCTION ACCESS RAMP BERM
1024	440817.00	1867854.00	651.00	TOE OF SLOPE - EDGE OF CELL 8 EXCAVATION
1025	441017.00	1867786.00	654.00	GRADE BREAK - LIMIT OF CELL 7 & 8 OVERBUILD
1026	441017.00	1867754.00	654.00	GRADE BREAK - CELL BOUNDARY

SUBGRADE DESIGN CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1027	441217.00	1867854.00	651.00	TOE OF SLOPE - LIMIT OF CELL 7 EXCAVATION
1028	441502.97	1867854.00	651.00	TOE OF SLOPE - EDGE OF CELL 7 EXCAVATION
1029	441509.09	1867786.00	653.04	TOE OF SLOPE - LIMIT OF CELL 7 OVERBUILD
1030	441511.96	1867754.00	654.00	TOE OF SLOPE - CELL BOUNDARY
1031	441493.50	1868041.36	720.00	TOP OF CONSTRUCTION RAMP
1032	441500.22	1867999.90	720.00	TOP OF CONSTRUCTION RAMP
1033	441505.84	1868043.36	721.00	GRADE BREAK
1034	441524.90	1868003.90	722.00	GRADE BREAK
1035	441709.97	1868058.26	720.00	GRADE BREAK
1036	441744.90	1867904.00	731.64	SLOPE CREST - GRADE BREAK
1037	441744.90	1867754.00	731.64	SLOPE CREST - CELL BOUNDARY
1038	441862.00	1867904.00	729.30	GRADE BREAK
1039	441895.90	1868034.26	718.00	BASE OF HAUL ROAD
1040	441945.08	1868025.26	718.00	BASE OF HAUL ROAD
1041	441865.90	1867870.31	728.00	TOP OF HAUL ROAD
1042	441862.00	1867849.00	729.30	GRADE BREAK
1043	441915.08	1867861.31	728.00	TOP OF HAUL ROAD
1044	441885.91	1867579.11	728.00	DITCH CL (EAST LIMITS)
1045	441885.91	1867424.15	727.07	DITCH CL (WEST LIMITS)
CELL BERM				
1046	440065.67	1867197.50	723.20	GRADE BREAK
1047	440068.00	1867356.86	724.00	GRADE BREAK
1048	440071.51	1867597.74	725.20	GRADE BREAK
1049	440084.80	1867596.76	722.43	GRADE BREAK
1050	440025.00	1867653.80	718.49	CELL TOE ROAD CL (WEST LIMITS)
1051	440025.00	1867950.00	719.97	CELL TOE ROAD CL (EAST LIMITS)

RIVER CORRIDOR CLOSURE CONTRACT
Dedicated To Safety Excellence
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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRISKE, STATE OF WASHINGTON, 42158 REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB		BAH	N/A	BB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUBGRADE SURVEY CONTROL CELLS 7 & 8

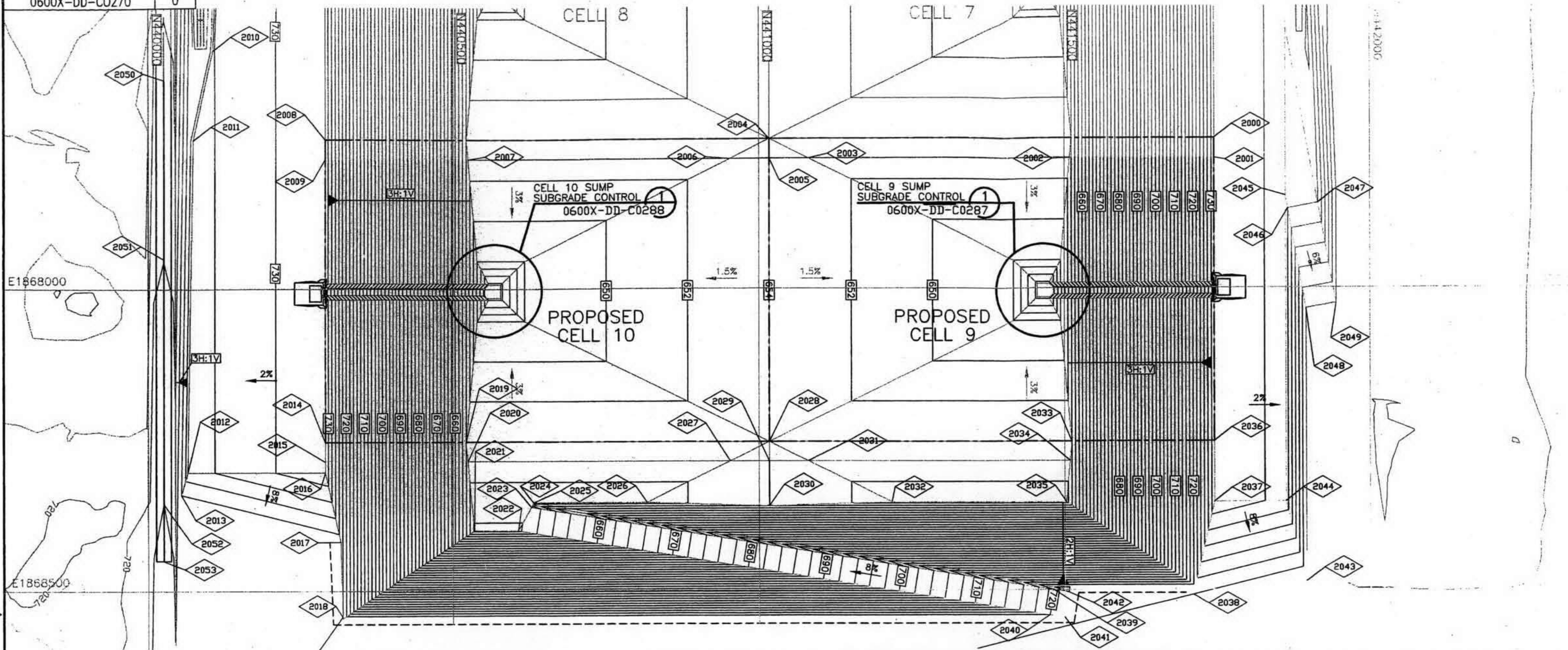
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0269.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0269	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15849 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0270	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

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WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borghi 10/9/07
0600X-SC-G0594 0519 017
500X524A00

0 50' 100' 200'

DOCUMENT CONTROL mlc 10/11/07

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIGHT — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

SUBGRADE DESIGN CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2000	441744.90	1867754.00	731.64	CELL BOUNDARY FOR CELLS 7 & 9
2001	441744.90	1867786.00	731.64	SLOPE CREST TIE IN – LIMIT OF CELL 7 OVERBUILD
2002	441509.09	1867786.00	653.04	TOE OF SLOPE TIE IN – LIMIT OF CELL 7 OVERBUILD
2003	441081.00	1867786.00	653.04	GRADE BREAK TIE IN – LIMIT OF CELL 7 OVERBUILD
2004	441017.00	1867754.00	654.00	CELL BOUNDARY FOR CELLS 7, 8, 9, & 10
2005	441017.00	1867786.00	654.00	CELL BOUNDARY FOR CELLS 9 & 10 – LIMIT OF CELLS 7 & 8 OVERBUILD
2006	440953.00	1867786.00	653.04	GRADE BREAK TIE IN – LIMIT OF CELL 8 OVERBUILD
2007	440524.91	1867786.00	653.04	TOE OF SLOPE TIE IN – LIMIT OF CELL 8 OVERBUILD
2008	440289.10	1867754.00	731.64	CELL BOUNDARY FOR CELLS 8 & 10
2009	440289.10	1867786.00	731.64	SLOPE CREST TIE IN – LIMIT OF CELL 8 OVERBUILD
2010*	440104.32	1867605.44	727.95	GRADE BREAK
2011*	440072.43	1867754.00	727.31	GRADE BREAK
2012	440063.66	1868304.00	726.15	GRADE BREAK
2013	440053.71	1868340.68	724.00	GRADE BREAK
2014	440289.10	1868254.00	731.64	SLOPE CREST – CELL BOUNDARY
2015	440289.10	1868286.00	731.64	SLOPE CREST – LIMIT OF CELL 10 OVERBUILD
2016	440289.10	1868304.00	731.64	SLOPE CREST – GRADE BREAK
2017	440315.01	1868418.42	723.01	SLOPE CREST – GRADE BREAK
2018	440318.03	1868542.36	722.00	SLOPE CREST – GRADE BREAK
2019	440522.03	1868254.00	654.00	TOE OF SLOPE – CELL BOUNDARY
2020	440525.02	1868286.00	653.04	TOE OF SLOPE – LIMIT OF CELL 10 OVERBUILD
2021	440535.22	1868400.56	649.60	TOE OF SLOPE – EDGE OF CELL 10 EXCAVATION
2022	440606.37	1868400.56	649.60	TOE OF SLOPE – EDGE OF CELL 10 EXCAVATION
2023	440627.57	1868361.45	650.78	BASE OF CONSTRUCTION ACCESS RAMP BERM
2024	440634.52	1868358.52	653.29	BASE OF CONSTRUCTION ACCESS RAMP BERM
2025	440631.61	1868354.00	651.00	BASE OF CONSTRUCTION ACCESS RAMP BERM
2026	440817.00	1868354.00	651.00	TOE OF SLOPE – EDGE OF CELL 10 EXCAVATION
2027	440953.00	1868286.00	653.04	GRADE BREAK – LIMIT OF CELL 10 OVERBUILD

SUBGRADE DESIGN CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
2028	441017.00	1868254.02	654.00	GRADE BREAK – CELL BOUNDARY FOR CELLS 9 & 10
2029	441017.00	1868286.00	654.00	GRADE BREAK – LIMIT OF CELLS 9 & 10 OVERBUILD
2030	441017.00	1868360.00	654.00	CELL BOUNDARY – TOE OF SLOPE
2031	441081.00	1868286.00	653.04	GRADE BREAK – LIMIT OF CELL 9 OVERBUILD
2032	441217.00	1868354.00	651.00	TOE OF SLOPE – EDGE OF CELL 9 EXCAVATION
2033	441511.97	1868254.00	654.00	TOE OF SLOPE – CELL BOUNDARY
2034	441509.09	1868286.00	653.04	TOE OF SLOPE – LIMIT OF CELL 9 OVERBUILD
2035	441502.97	1868354.00	651.00	TOE OF SLOPE – LIMIT OF CELL 9 EXCAVATION
2036	441744.90	1868254.00	731.64	SLOPE CREST – CELL BOUNDARY
2037	441744.90	1868354.00	731.64	SLOPE CREST – GRADE BREAK
2038	441709.97	1868508.26	720.00	GRADE BREAK
2039	441481.72	1868499.90	720.00	TOP OF CONSTRUCTION RAMP
2040	441475.00	1868541.36	720.00	TOP OF CONSTRUCTION RAMP
2041	441499.67	1868545.36	722.00	GRADE BREAK
2042	441506.39	1868503.90	722.00	GRADE BREAK
2043	441895.90	1868486.77	718.00	GRADE BREAK
2044	441862.00	1868354.00	729.30	GRADE BREAK
2045*	441862.00	1867849.00	729.30	GRADE BREAK
2046*	441865.90	1867870.31	728.00	TOP OF HAUL ROAD
2047*	441915.08	1867861.31	728.00	TOP OF HAUL ROAD
2048*	441895.90	1868034.26	718.00	BASE OF HAUL ROAD
2049*	441945.08	1868025.26	718.00	BASE OF HAUL ROAD
CELL BERM				
2050*	440025.00	1867653.80	718.19	CELL TOE ROAD CL (WEST LIMITS OF CELL 8)
2051	440025.00	1867950.00	719.97	CELL TOE ROAD CL (WEST LIMITS OF CELL 10)
2052	440025.00	1868354.93	722.00	CELL TOE ROAD CL
2053	440025.00	1868450.00	722.47	CELL TOE ROAD CL (EAST LIMITS)

NOTE:
* DENOTES TIE IN FROM PREVIOUS CONSTRUCTION OF CELLS 7 & 8

WCH River Corridor Closure Contract
Dedicated To Safety Excellence

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	Sam	JH	MA	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUBGRADE SURVEY CONTROL - CELLS 9 & 10

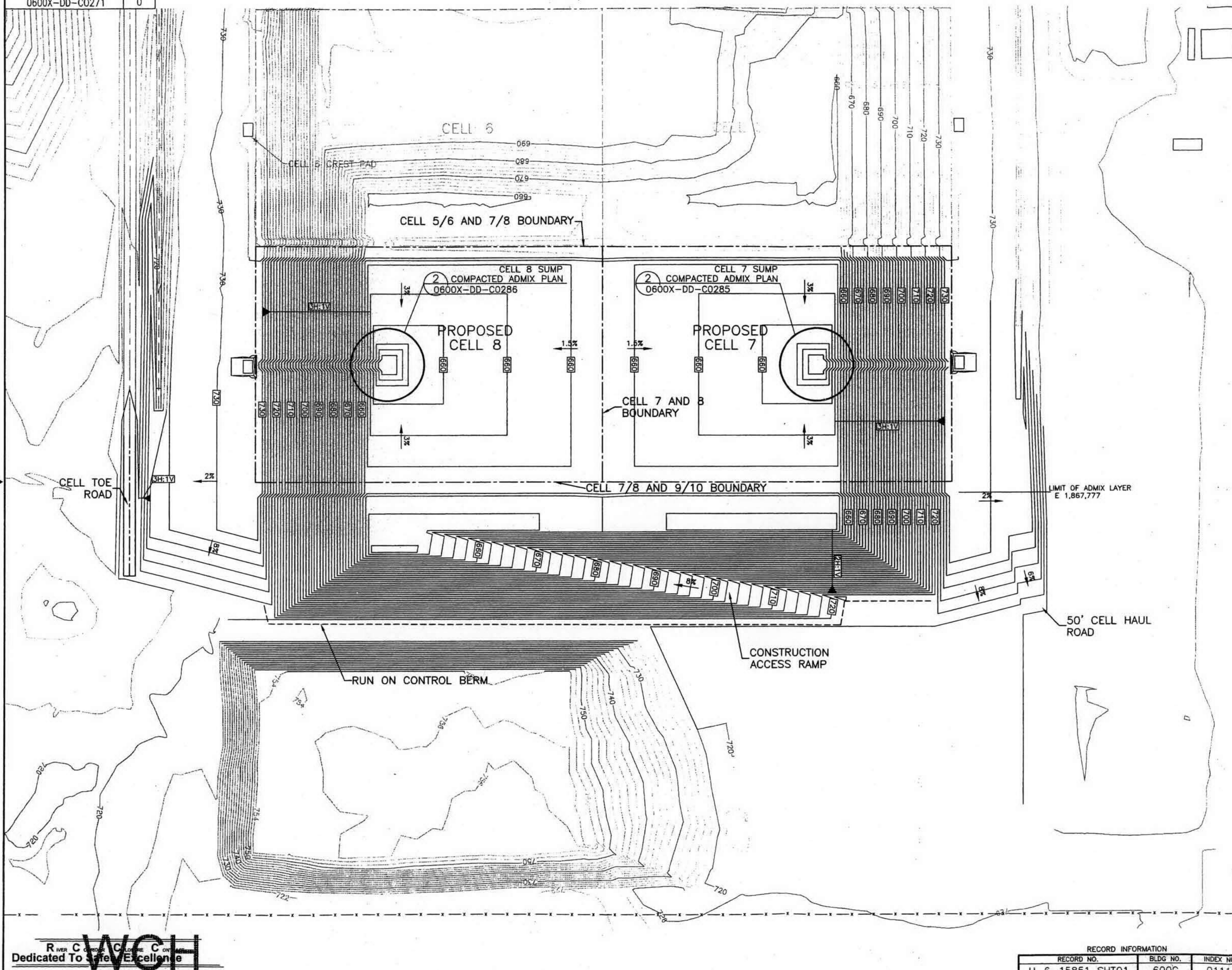
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0270.DWG

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15850 SHT01	600G	0111

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0270	0

DRAWING NO.	REV. NO.
0600X-DD-C0271	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

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0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — JOB NO. 14655 — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☑ Work may proceed.

Bill Borlaug 10/9/07

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	DRSG/ENG'R	ENG'R CH'K	SYS. ENG'R	PROJ. ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB		AH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
ADMIX LAYER CONTOURS - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0271.DWG

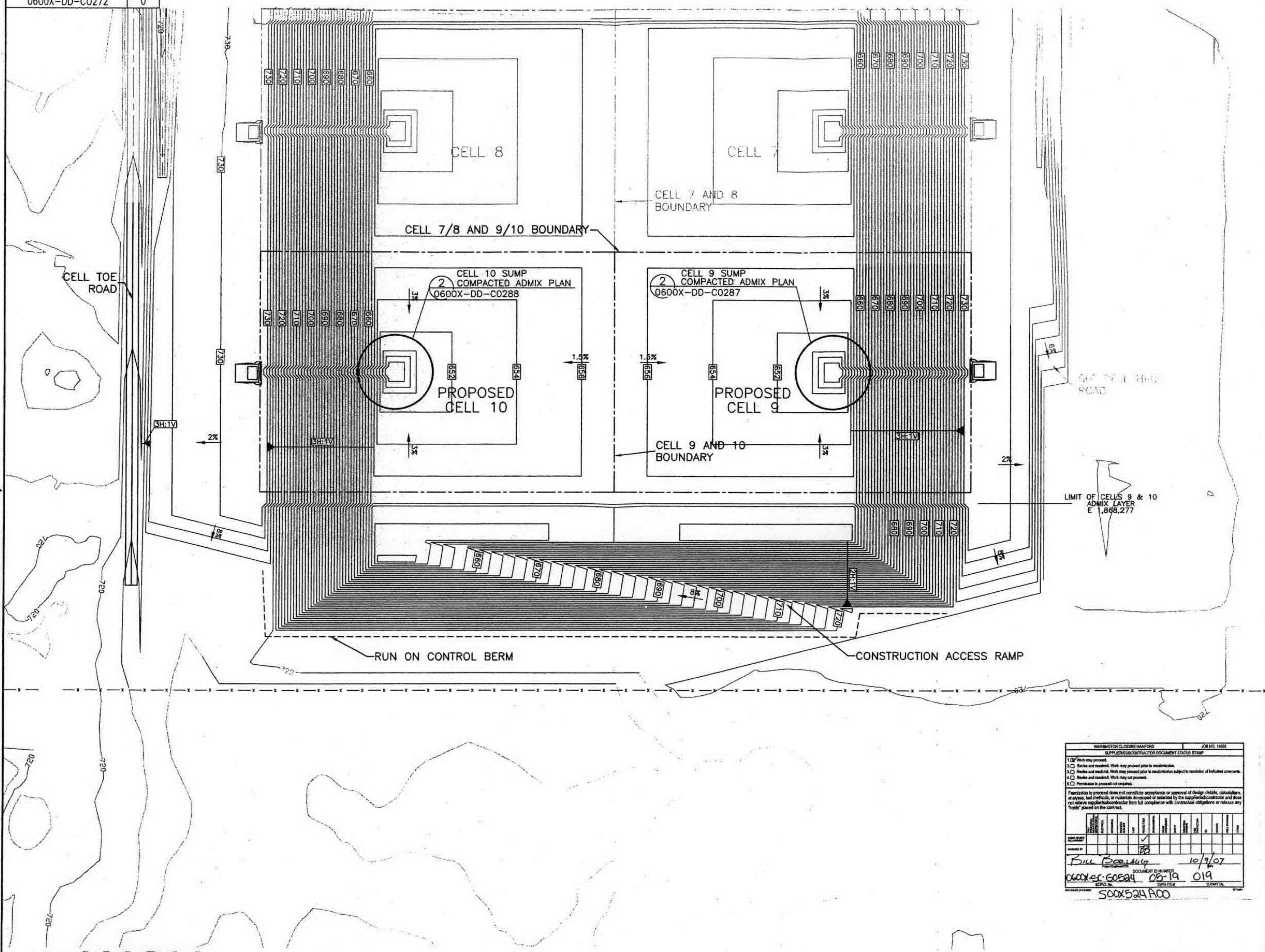
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0271	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15851 SHT01	600G	0111

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0272	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRCUTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DRSG/ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JV	CJB		BH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
ADMIX LAYER CONTOURS - CELLS 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0272.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0272	0

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

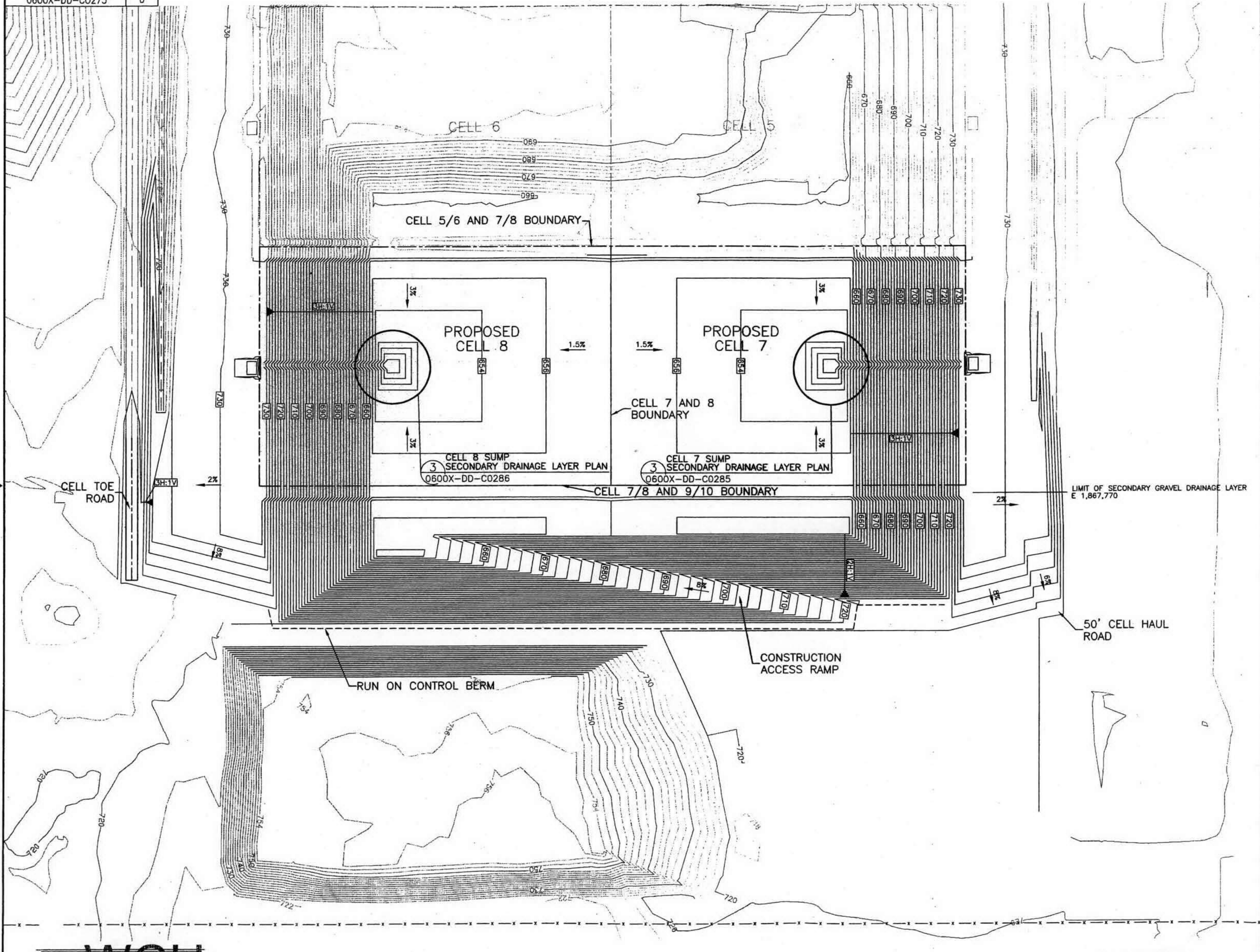
Bill Borghing 10/9/07
0600X-SC-G0524 05-19 019
S00X524A00

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15852 SHT01	600G	0111

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0273	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ. ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	[illegible]	BH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SECONDARY DRAINAGE LAYER CONTOURS - CELLS 7 & 8

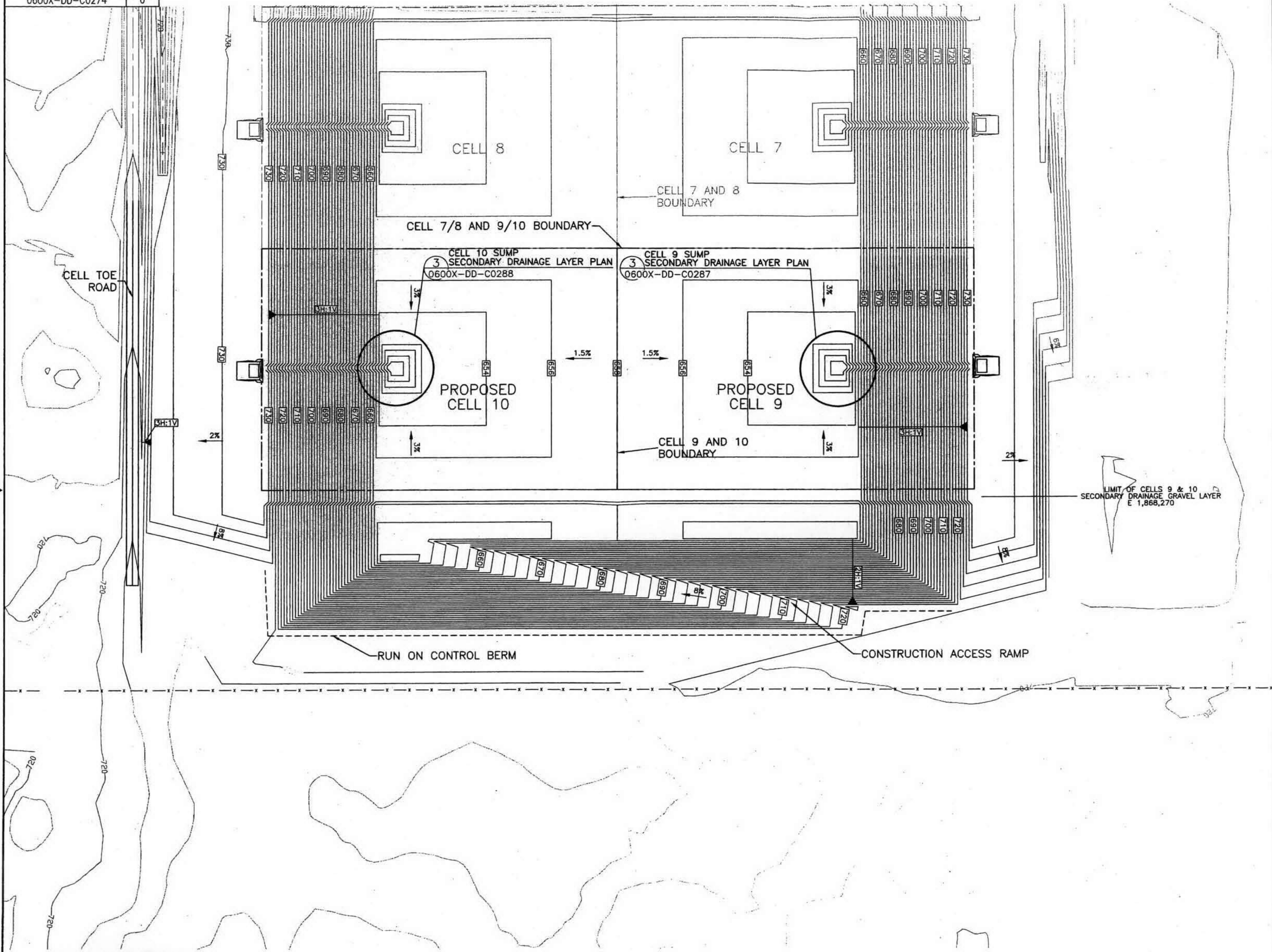
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0273.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0273	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15853 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0274	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

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WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borlaug 10/9/07
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S00X524A00

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DISC. ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7-10 SECONDARY DRAINAGE LAYER CONTOURS - CELLS 9 & 10

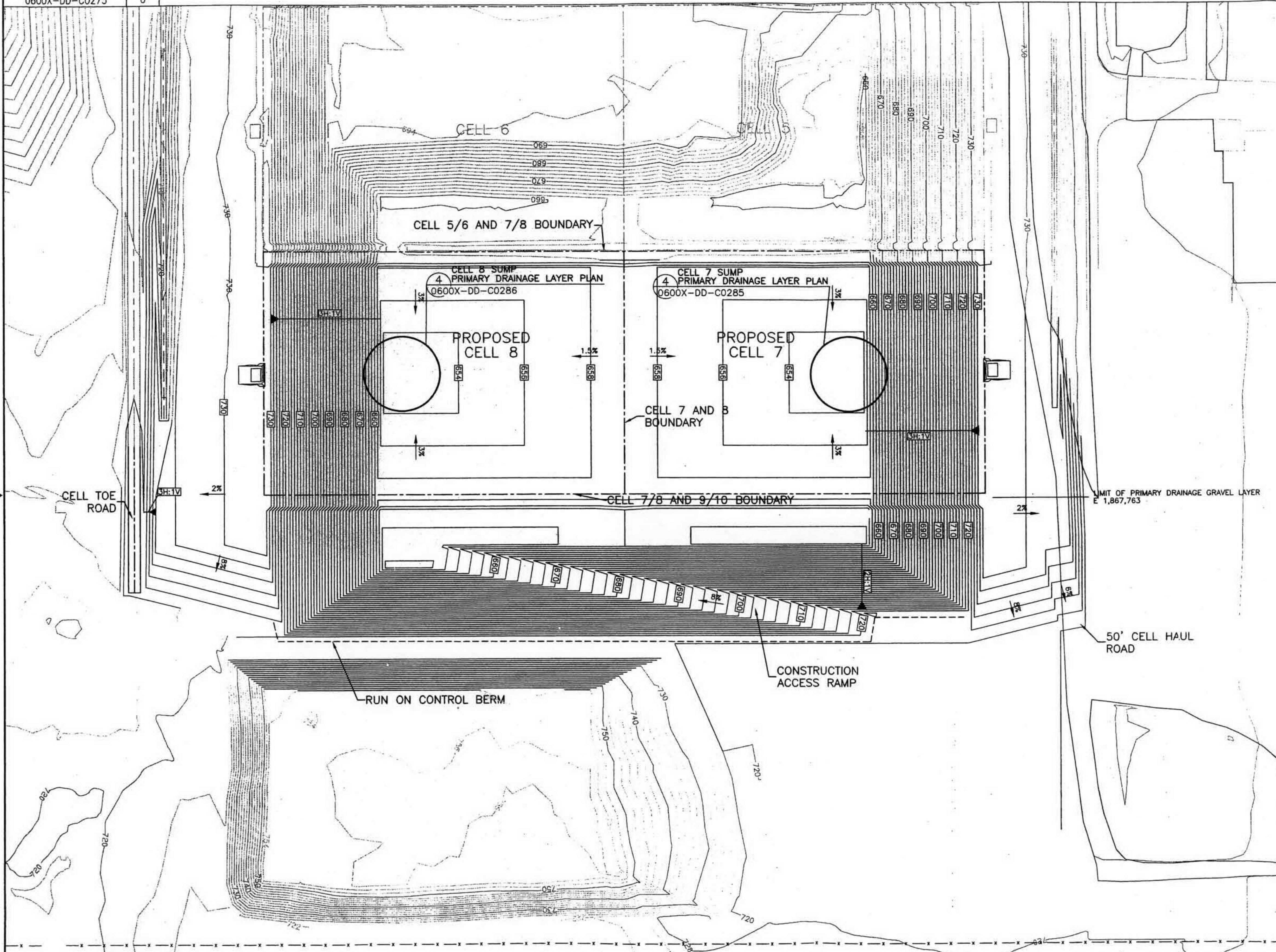
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0274.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0274	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15854 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0275	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
3. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

DOCUMENT CONTROL mlc 10/11/07

Best Available Copy

0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borlaug 10/9/07

0600X-SC-G0524 05-19 022

SCCX524A00

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WCH - DOCUMENT CONTROL

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIANT — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DRSG/ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JSW	CJB	Sm	JLH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
PRIMARY DRAINAGE LAYER CONTOURS - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0275.DWG

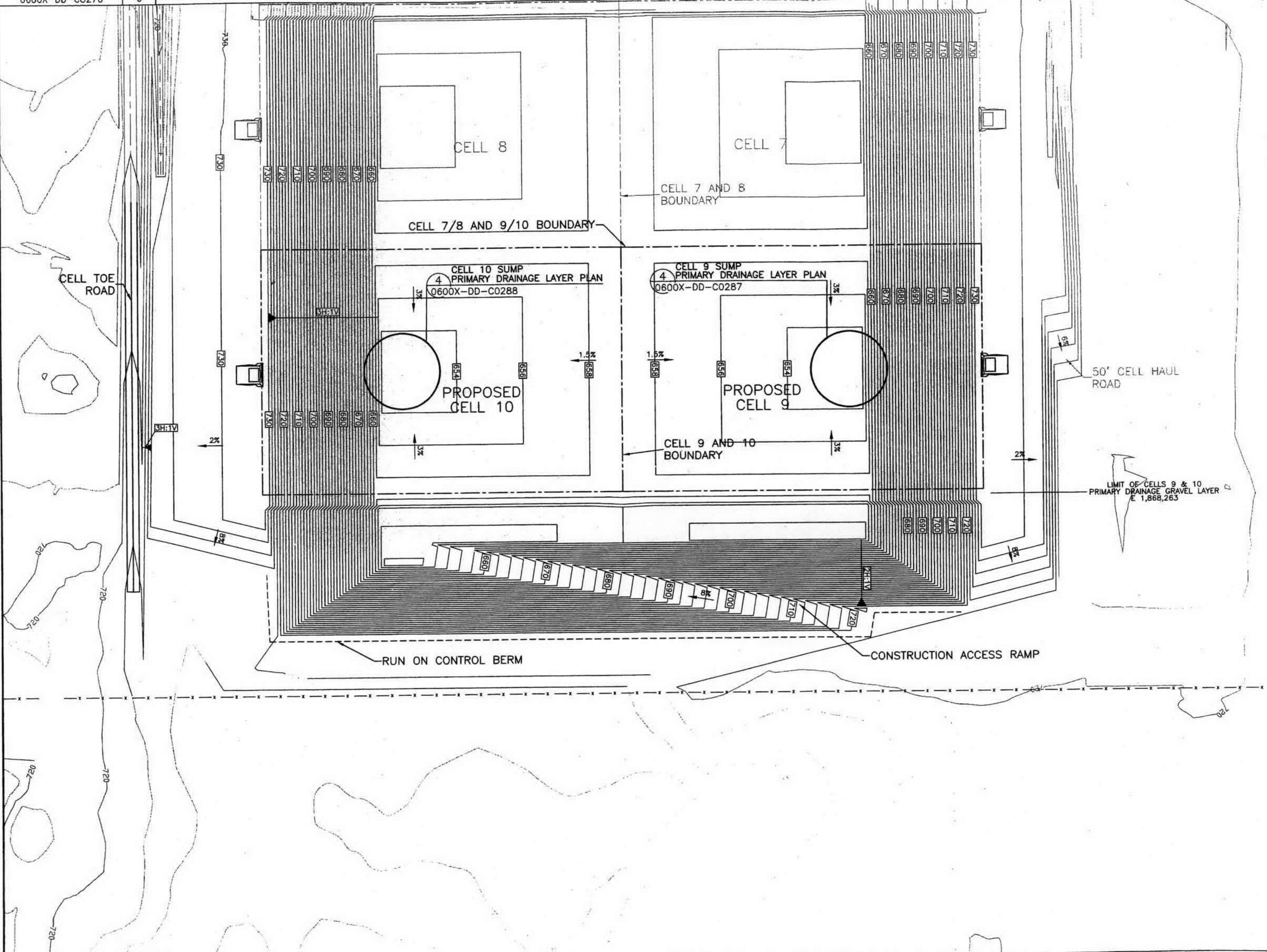
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0275	0

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15855 SHT01	600G	0111

RECORD INFORMATION

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0276	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
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4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

DOCUMENT CONTROL mec 10/11/07

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N

0 50' 100' 200'

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☑ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
4. ☐ Revise and resubmit. Work may not proceed.
5. ☐ Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

Bill Borlaug 10/9/07
0600X-SC-G0524 05-19 023
SC/P.O. No. — SSRS ITEM — SUBMITTAL

500X524A00

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WCH - DOCUMENT CONTROL

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JOHN CARL BREST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JV	CJB	[illegible]	BH	N/A	[illegible]

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
PRIMARY DRAINAGE LAYER CONTOURS - CELLS 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0276.DWG

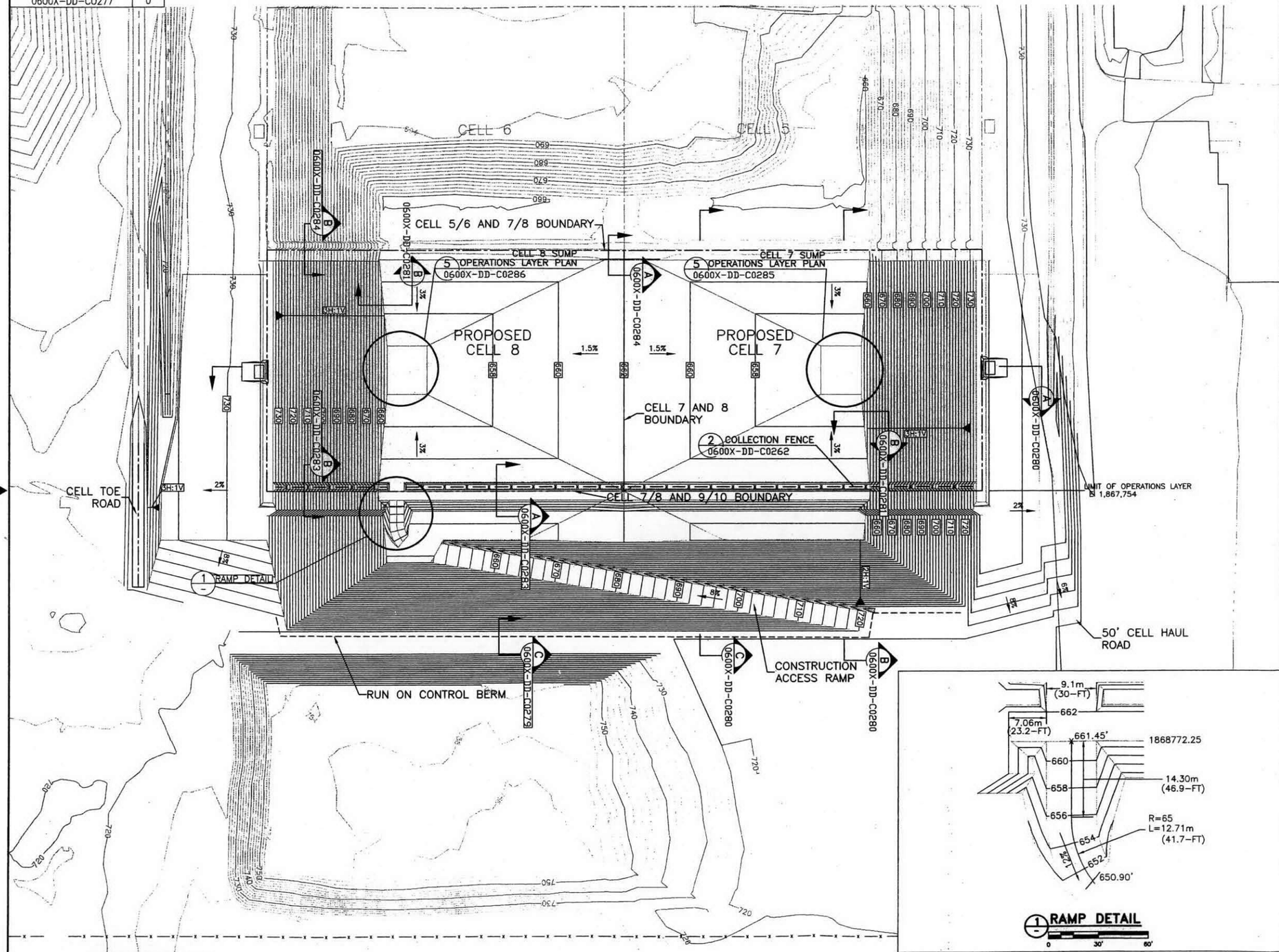
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0276	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15856 SHT01	600G	0111

River Corridor Closure Contract
WCH
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0277	0



NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
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4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

DOCUMENT CONTROL mjc 10/11/07

Best Available Copy

0 50' 100' 200'

WASHINGTON CLOSURE HANFORD | JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☒ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
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5. ☐ Permission to proceed not required.

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Bill Borghoff 10/9/07

0600X-SC-G0524 05-19 024

500X524A00

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WCH - DOCUMENT CONTROL

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JOHN CARL BRIENZA — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 10/8/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB	[illegible]	BH	N/A	RB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.	WEAVER BOOS CONSULTANTS, LLC
RICHLAND, WASHINGTON	DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
OPERATIONS LAYER CONTOURS - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0277.DWG

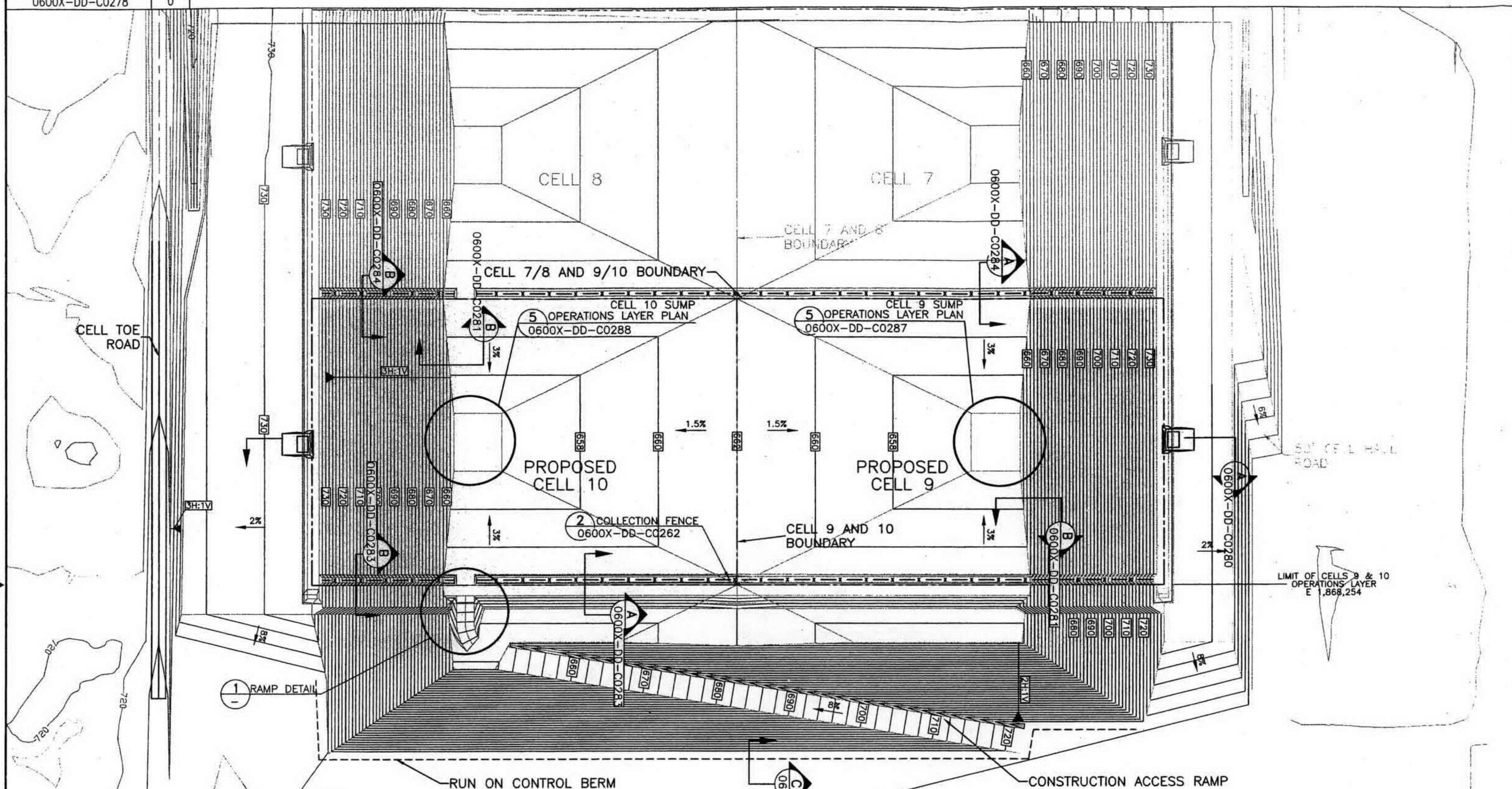
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0277	0

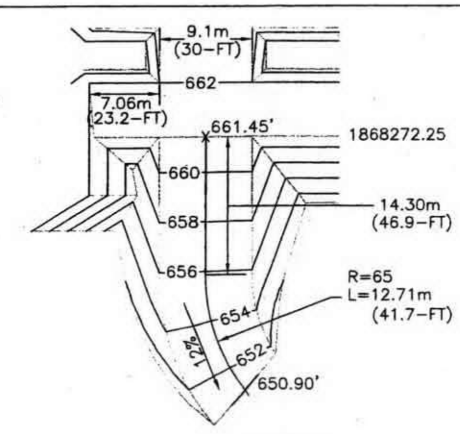
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15857 SHT01	600G	0111

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-C0278	0





1 RAMP DETAIL

0 30' 60'

NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. LIMIT OF LINER COMPONENT CONSTRUCTION INDICATES EXTENT OF FULL-DEPTH CONSTRUCTION.
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4. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)

0 50' 100' 200'
CONTOUR INTERVAL: 2 FT

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WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mtc 10/11/07

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJU	CJB	[illegible]	PH	N/A	[illegible]

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY 7-10
OPERATIONS LAYER CONTOURS – CELLS 9 & 10

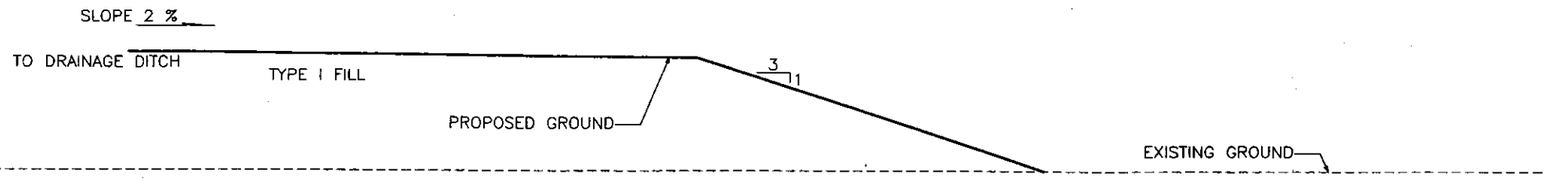
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0278.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0278	0

RECORD INFORMATION

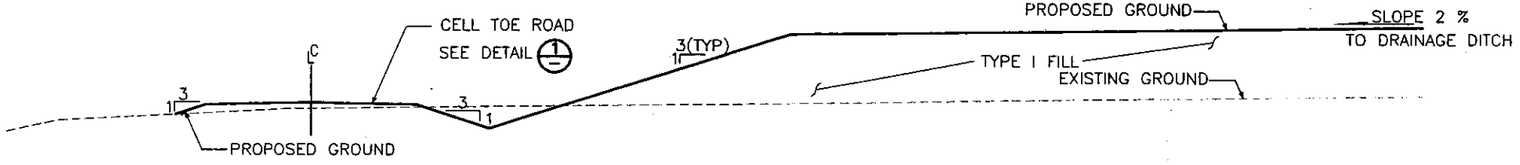
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15858 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0279	0



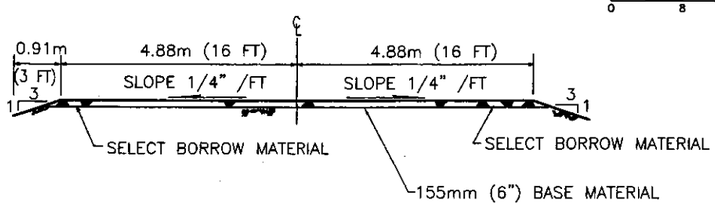
A TYPICAL TRENCH BERM SECTION (NORTH)
0600X-DD-C0267

SCALE 0 8 16 feet



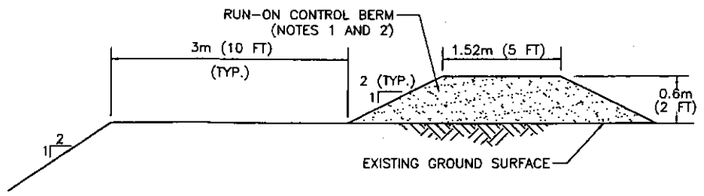
B TYPICAL TRENCH BERM SECTION (SOUTH)
0600X-DD-C0267,C0268

SCALE 0 8 16 feet



1 CELL TOE ROAD SECTION

SCALE 0 4 8 feet

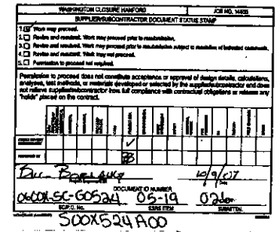


C RUN-ON CONTROL BERM SECTION
0600X-DD-C0264,C0277,C0278,C0280

SCALE 0 3 6 feet

NOTES

1. CONSTRUCT RUN-ON CONTROL BERM FROM TYPE I FILL.
2. FLATTEN RUN-ON CONTROL BERM SLOPES AT ENTRANCE TO CONSTRUCTION ACCESS RAMP AS REQUIRED FOR VEHICLE ACCESS. SLOPE AWAY FROM CELLS.



DOCUMENT CONTROL mac 10/11/07

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EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENGR	ENGR CHK	EIS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	SW	KSB	Sm	JH	N/A	KSB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

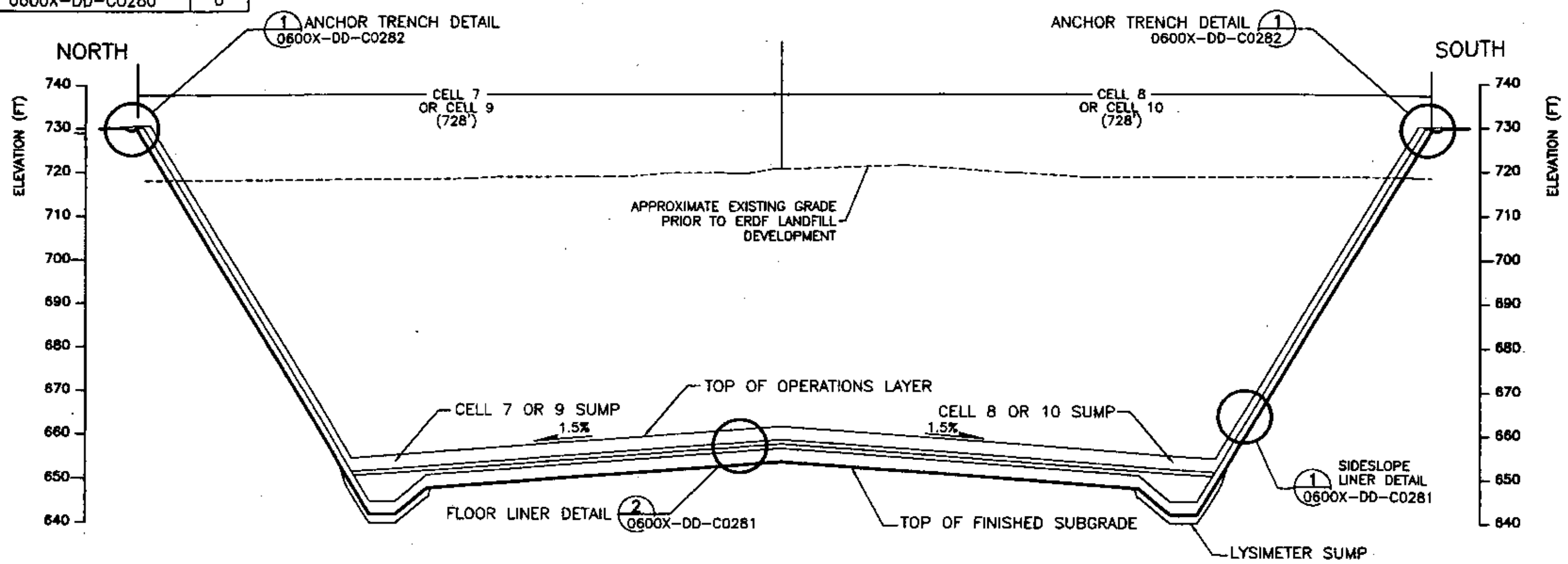
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
CIVIL SECTIONS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0279.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0279	0

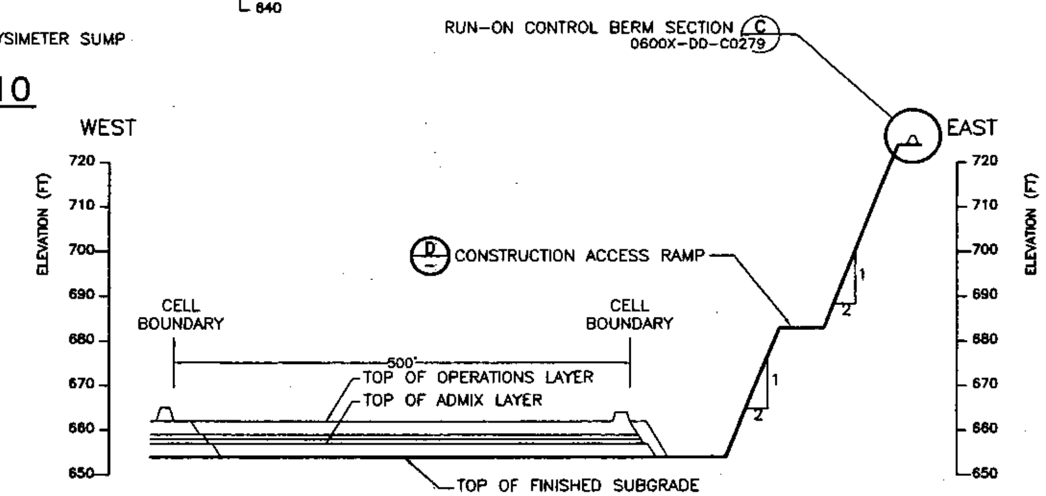
RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15859 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0280	0



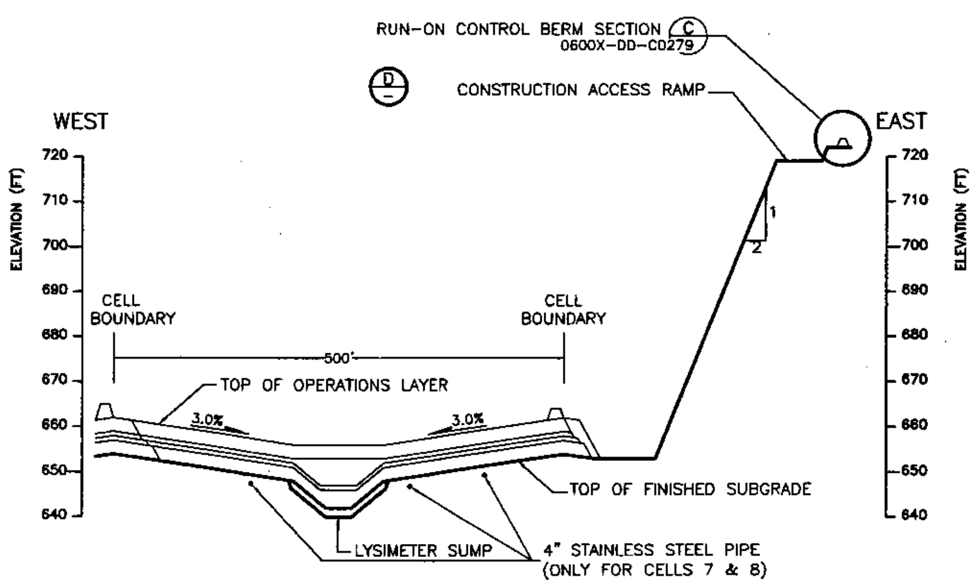
A NORTH-SOUTH SECTION FOR CELLS 7 & 8 AND 9 & 10
0600X-DD-C0277,C0278

SCALE 0 100 200 feet



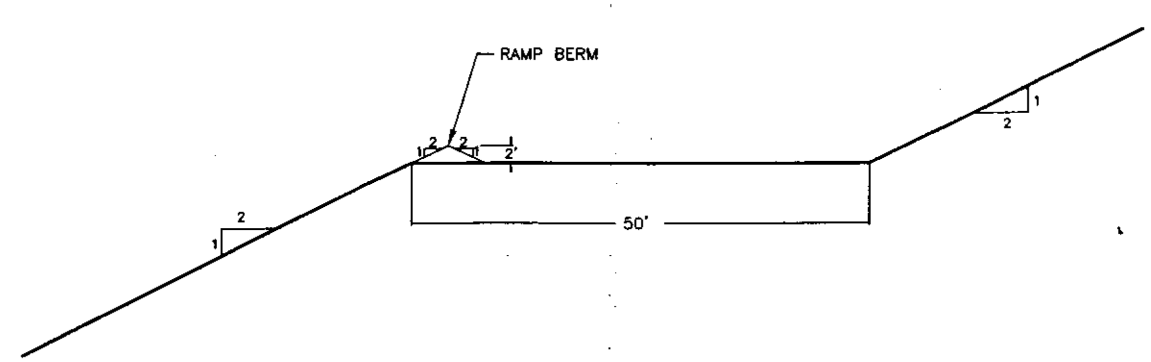
C E-W SECTION
0600X-DD-C0277

SCALE 0 100 200 feet



B E-W SECTION
0600X-DD-C0277

SCALE 0 100 200 feet



D CONSTRUCTION ACCESS RAMP
0600X-DD-C0267,C0268

SCALE 0 20 40 feet

NOTES

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Dorlau 10/8/07

0600X-SC-G0524 05-19 027

500X524 A00

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DOCUMENT CONTROL mlc 10/11/07

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JOHN CARL BRIST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENG'R	ENG'R CHK	SIS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJV	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
GENERAL CROSS SECTIONS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0280.DWG

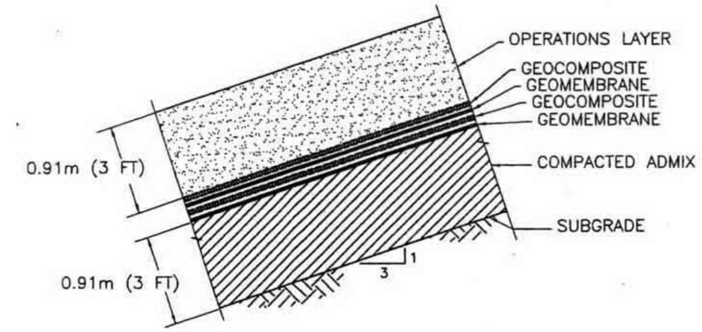
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0280	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15860 SHT01	600G	0111

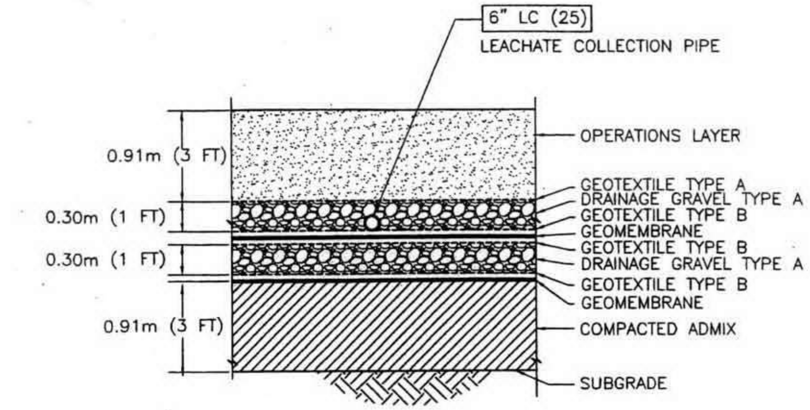
WCH Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0281	0



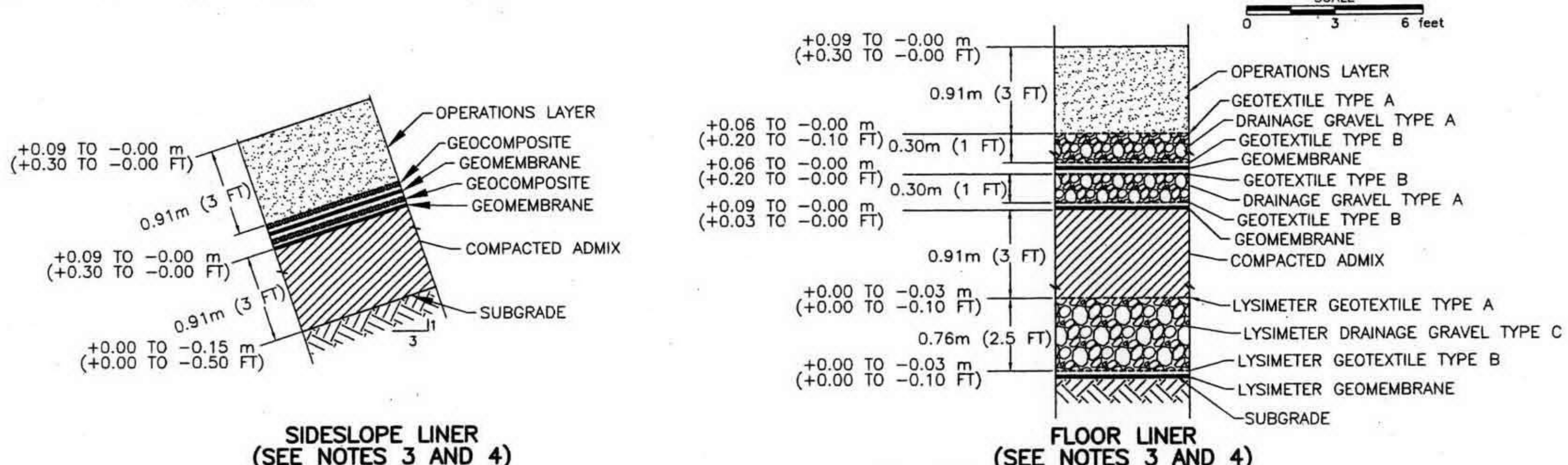
1 SIDESLOPE LINER DETAIL
0600X-DD-C0280,C0299

SCALE 0 3 6 feet



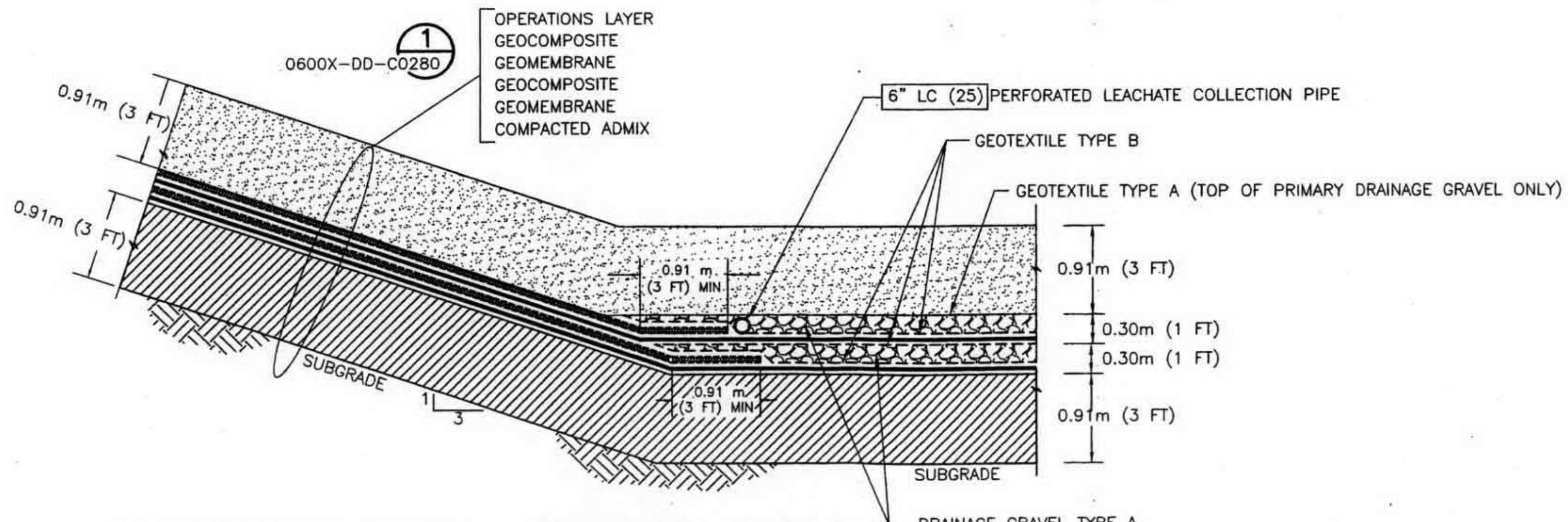
2 FLOOR LINER DETAIL
0600X-DD-C0280,C0289,C0290,C0299

SCALE 0 3 6 feet



3 LINER GRADING TOLERANCES

SCALE 0 3 6 feet



B LINER TRANSITION – FLOOR TO SIDESLOPE
0600X-DD-C0277,C0278

SCALE 0 3 6 feet

NOTES

1. LINER SYSTEM COMPONENT THICKNESSES EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. GRADING TOLERANCES DO NOT RELIEVE CONTRACTOR FROM LINER SYSTEM THICKNESS REQUIREMENTS. LINER SYSTEM THICKNESSES REPRESENT THE MINIMUM ALLOWABLE. AREAS FOUND TO BE LESS THAN THE REQUIRED THICKNESS (EVEN BY MINOR AMOUNTS) WILL REQUIRE RECONSTRUCTION.
4. GRADING TOLERANCES DO NOT RELIEVE CONTRACTOR FROM THE MINIMUM PIPE SLOPE REQUIREMENTS. ALL 6" LC(25) PERFORATED LEACHATE COLLECTION PIPE MUST BE INSTALLED AT A 1% MINIMUM SLOPE.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Borlaug 10/9/07
0600X-SR-G0524 05-19 028
500X524A00

RECEIVED
OCT 08 2007
WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mc 10/11/07

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JV	CSB		BH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
LINER SYSTEM DETAILS-1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0281.DWG

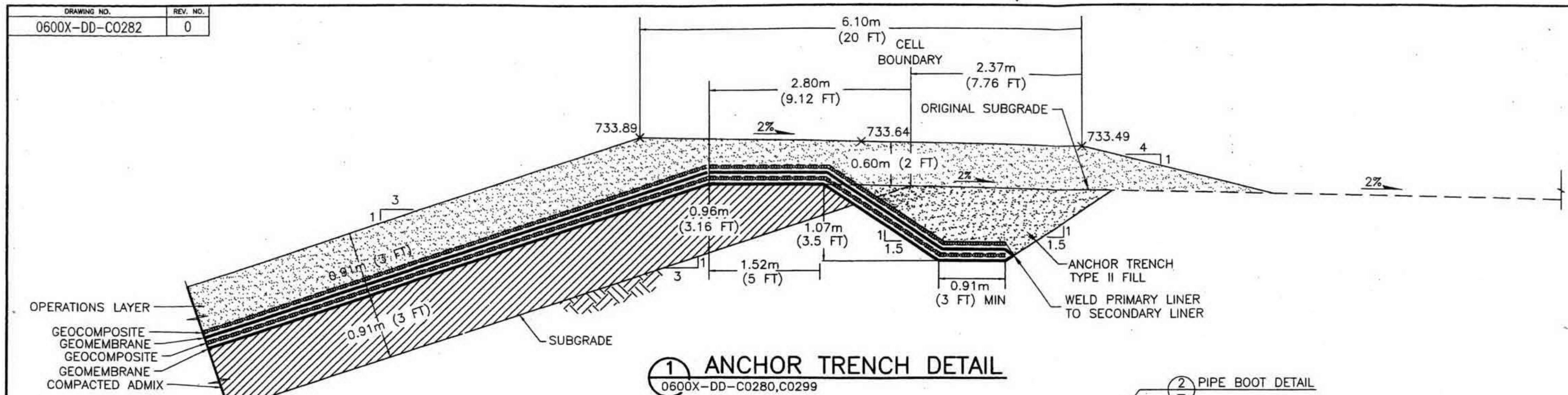
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0281	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15861 SHT01	600G	0111

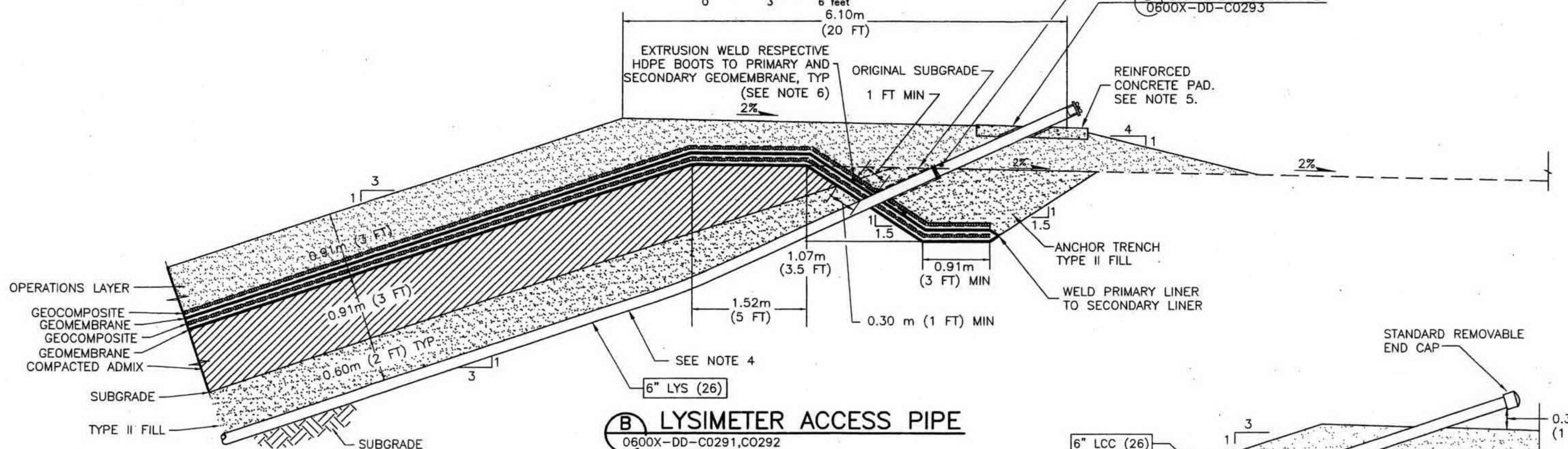
River Corridor Closure Contract
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0282	0



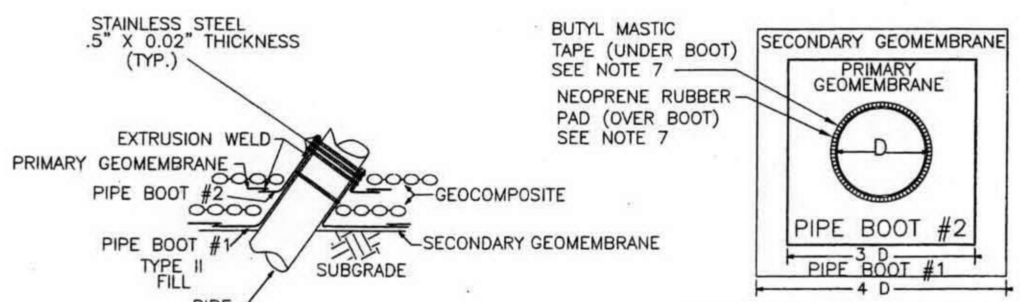
1 ANCHOR TRENCH DETAIL
0600X-DD-C0280,C0299

SCALE 0 3 6 feet



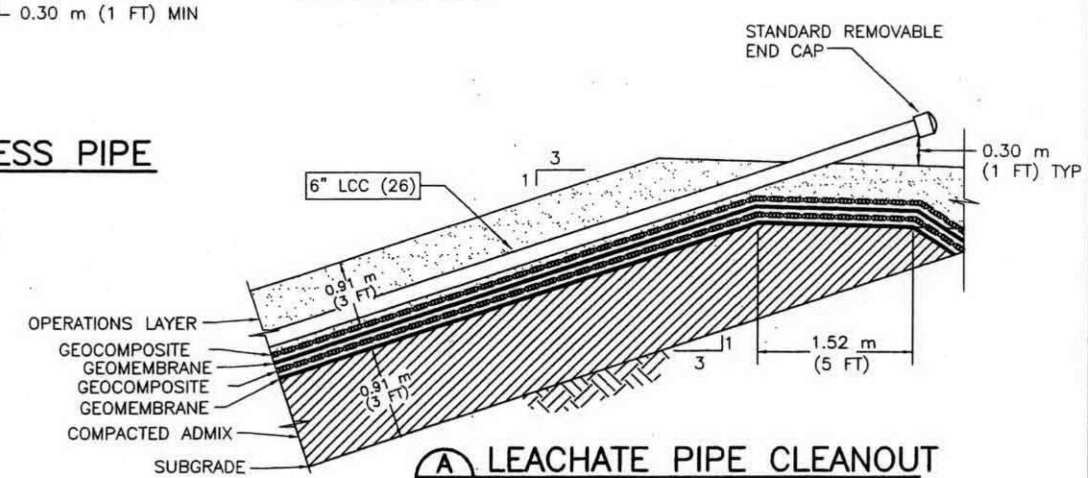
B LYSIMETER ACCESS PIPE
0600X-DD-C0291,C0292

SCALE 0 3 6 feet



NOTES: ALL PIPE BOOTS TO BE CONSTRUCTED OF HIGH DENSITY POLYETHYLENE (HDPE)

2 PIPE BOOT DETAIL



A LEACHATE PIPE CLEANOUT
0600X-DD-C0291,C0292

SCALE 0 3 6 feet

NOTES

1. LINER SYSTEM COMPONENT THICKNESS' EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. REFER TO TECHNICAL SPECIFICATION 0600X-SP-C0072 FOR SITE WORK FOR TYPE I FILL AND TYPE II FILL REQUIREMENTS.
4. GENTLY SLOPE LYSIMETER PIPE AND TRENCH SUBGRADE TO ENSURE THAT LYSIMETER PIPE PENETRATES LINERS AS SHOWN. MAINTAIN 1 FT COVER (MIN) BETWEEN LYSIMETER PIPE AND COMPACTED ADMIX LAYER. PIPE SHALL REMAIN IN CONTINUOUS CONTACT WITH TRENCH BOTTOM ALONG ENTIRE PIPE LENGTH.
5. BOLLARDS NOT SHOWN
6. REMOVE GEOCOMPOSITE AS NECESSARY FOR BOOT INSTALLATION TO SECONDARY AND PRIMARY GEOMEMBRANE. FORM BOOT WITH SUFFICIENT MATERIAL TO PREVENT OVERSTRESSING DURING BACKFILLING, BUT WITHOUT FOLDS OR WRINKLES.
7. BUTYL MASTIC TAPE AND NEOPRENE RUBBER PAD APPLIED CONTINUOUSLY AROUND PIPE.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP
1 ☒ Work may proceed.
Bill Borghum 10/9/07
0600X-SC-G0524 05-19 029
S00X524A00

RECEIVED
OCT 08 2007
WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mJc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIESE — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS. ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	GRB	Sam	JJH	N/A	SDR

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
LINER SYSTEM DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0282.DWG

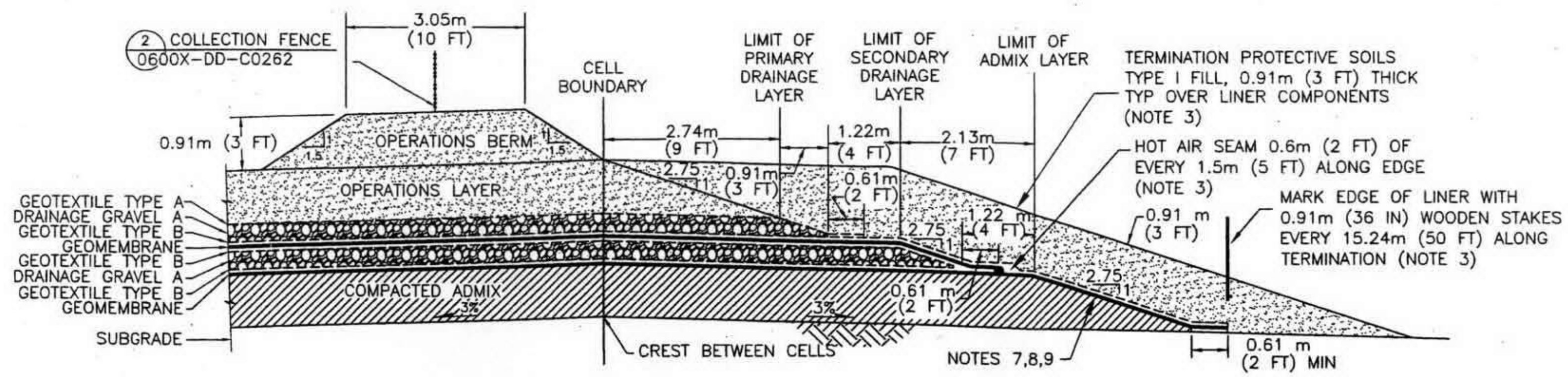
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0282	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15862 SHT01	600G	0111

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

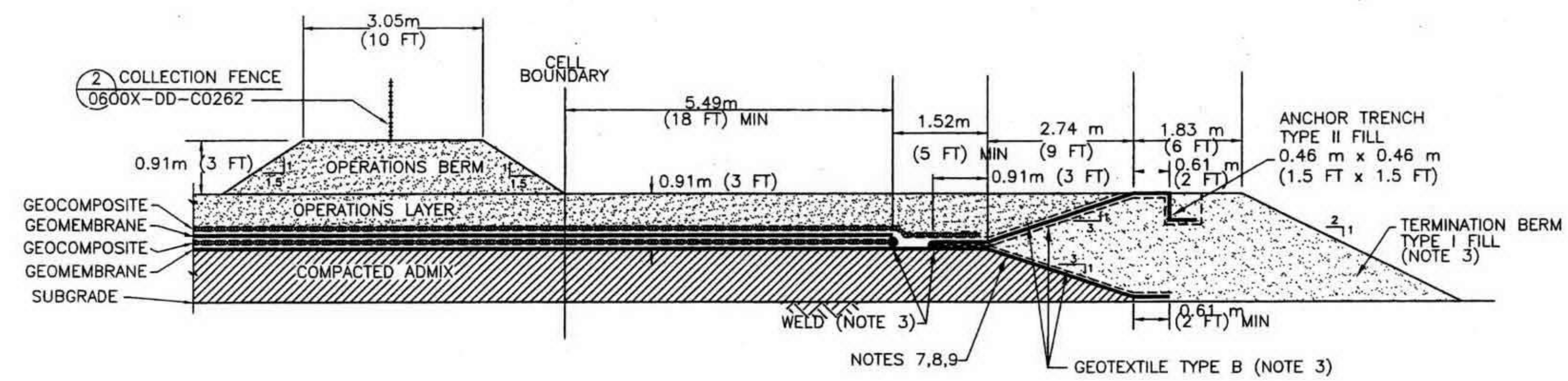
DRAWING NO.	REV. NO.
0600X-DD-C0283	0



A FLOOR LINER TERMINATION SECTION @ EAST CELL BOUNDARY

0600X-DD-C0277,C0278

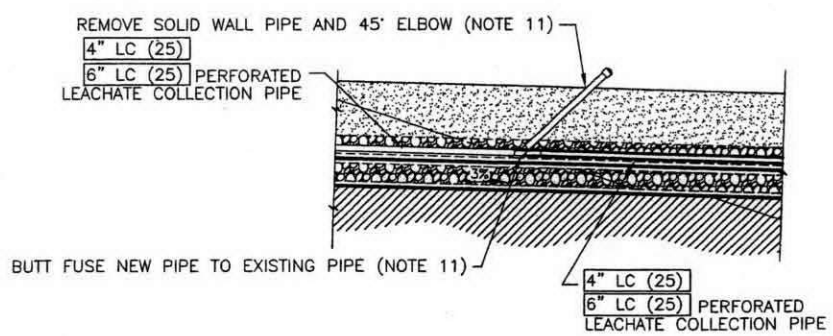
SCALE 0 4 8 feet



B SIDESLOPE LINER TERMINATION SECTION @ EAST CELL BOUNDARY

0600X-DD-C0277,C0278

SCALE 0 4 8 feet



C TYPICAL LEACHATE PIPING TIE-IN SECTION

0600X-DD-C0291,C0292

SCALE 0 4 8 feet

NOTES

1. LINER SYSTEM COMPONENT THICKNESS' EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. TEMPORARY FEATURES IN THE TERMINATION SECTIONS ARE INDICATED BY A REFERENCE TO NOTE 3. ALL TEMPORARY FEATURES ARE TO BE CONSTRUCTED AS PART OF THE TERMINATION SECTION AND REMOVED FOR FUTURE LINER SYSTEM TIE-IN.
4. FOR LINER TIE-IN, REMOVE ALL DAMAGED, DETERIORATED, OR OTHERWISE UNSATISFACTORY EXISTING GEOSYNTHETIC MATERIALS TO THE SATISFACTION OF THE CONTRACTOR.
5. JOIN GEOSYNTHETIC MATERIALS BETWEEN EXISTING AND NEW LINER SECTIONS USING STANDARD METHODS DESCRIBED IN TECHNICAL SPECIFICATIONS, EXCEPT AS NOTED.
6. EXTRUSION WELDING SHALL NOT BE USED TO JOIN NEW AND EXISTING GEOMEMBRANES.
7. FOR LINER TIE-IN, REMOVE ANY CRACKED OR OTHERWISE UNSUITABLE EXISTING ADMIX TO THE SATISFACTION OF THE CONTRACTOR.
8. SEAM BETWEEN NEW AND EXISTING ADMIX SHALL BE 3H:1V (TYP) AND NO STEEPER THAN 2.75H:1V.
9. KNEAD NEW ADMIX THOROUGHLY INTO EXISTING ADMIX.
10. ALL LAYERS OF NEW LINER SYSTEM SHALL BE CONTINUOUS WITH CORRESPONDING LAYERS IN EXISTING LINER.
11. 4" LC (25) PERFORATED LEACHATE COLLECTION PIPES IN CURRENT CELL SHALL TERMINATE 10 FT WEST OF CELL BOUNDARY AND PIPES IN FUTURE CELL SHALL BE INSTALLED IN THEIR ENTIRETY DURING FUTURE CELL CONSTRUCTION.

DOCUMENT CONTROL mlc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIEST, STATE OF WASHINGTON, 42158 REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB			N/A	PB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
LINER TERMINATION DETAILS-1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0283.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0283	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15863 SHT01	600G	0111

RECEIVED OCT 08 2007 WCH - DOCUMENT CONTROL

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

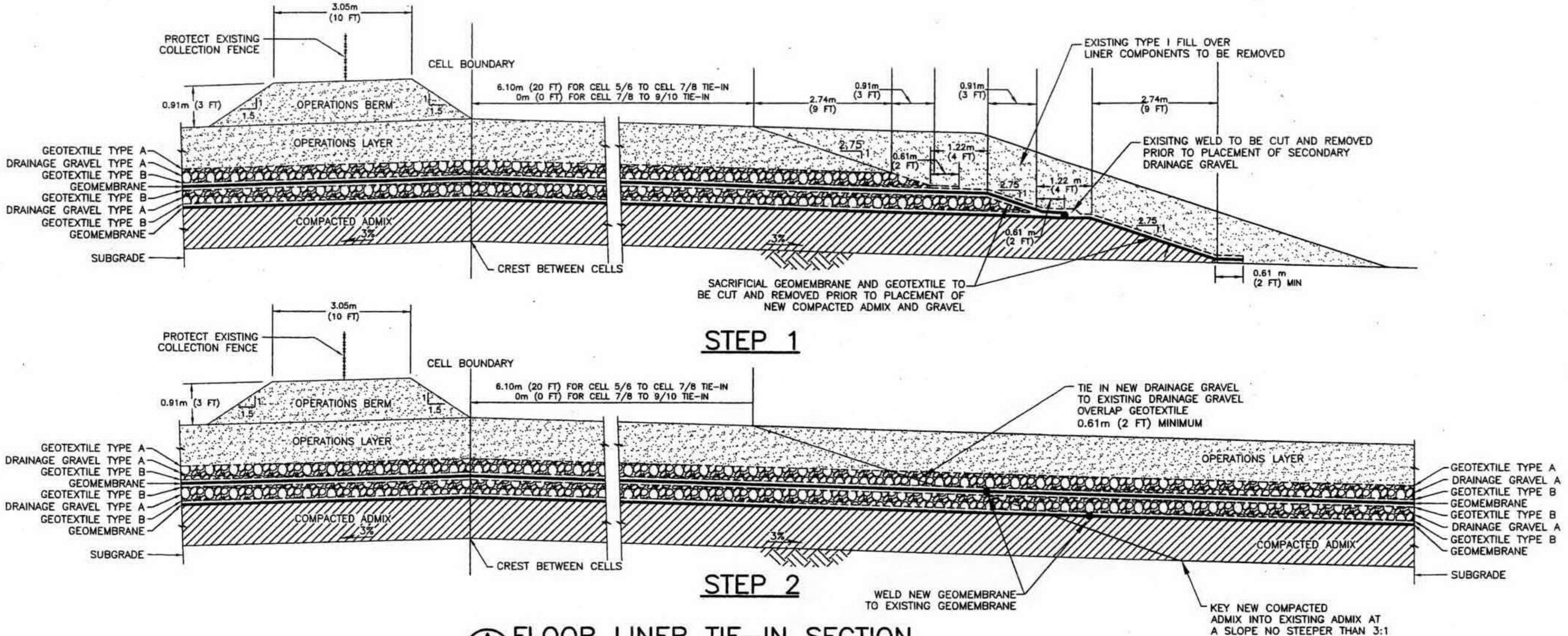
1. ☑ Work may proceed.

Bill Boeluig 10/9/07
0600X-SC-G0524 05-19 030

500X524-A00

Dedicated To Safety Excellence — River Corridor Closure Contract WCH

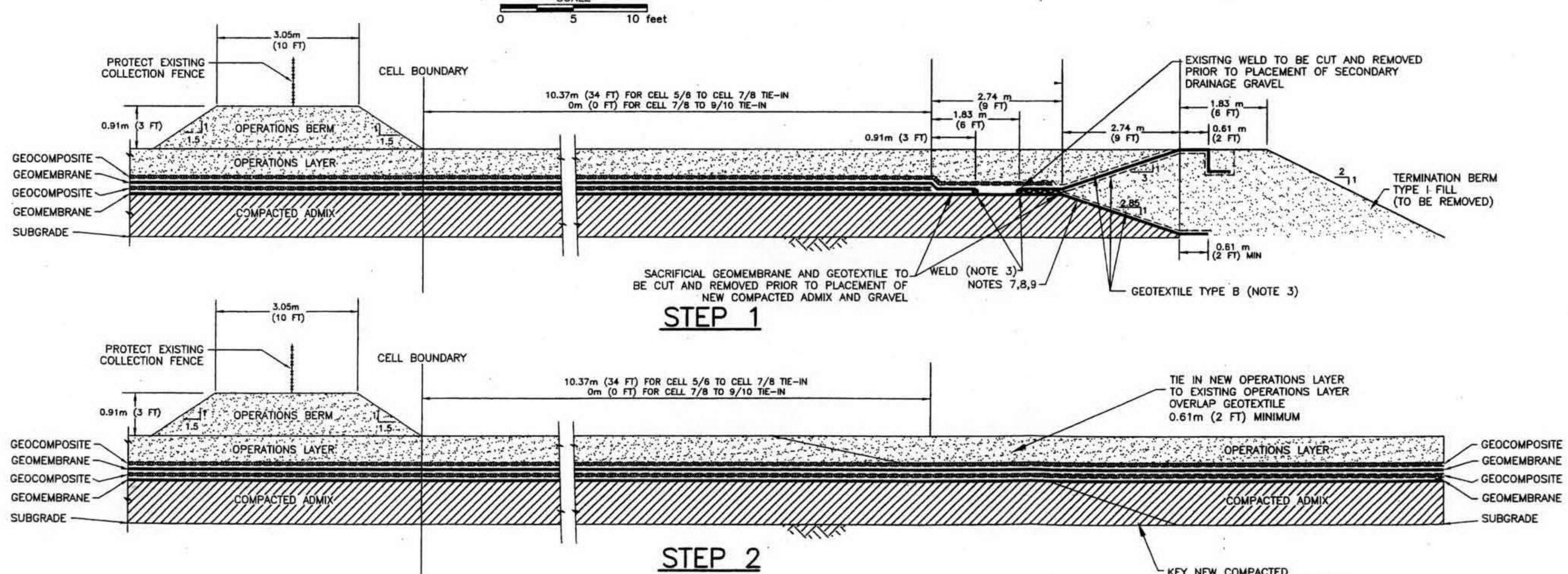
DRAWING NO.	REV. NO.
0600X-DD-C0284	0



A FLOOR LINER TIE-IN SECTION

0600X-DD-C0277,C0278

SCALE 0 5 10 feet



B SIDESLOPE LINER TIE-IN SECTION

0600X-DD-C0277,C0278

SCALE 0 5 10 feet

NOTES

1. LINER SYSTEM COMPONENT THICKNESS' EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. REMOVE FOR LINER SYSTEM TIE-IN.
4. FOR LINER TIE-IN, REMOVE ALL DAMAGED, DETERIORATED, OR OTHERWISE UNSATISFACTORY EXISTING GEOSYNTHETIC MATERIALS TO THE SATISFACTION OF THE CONTRACTOR.
5. JOIN GEOSYNTHETIC MATERIALS BETWEEN EXISTING AND NEW LINER SECTIONS USING STANDARD METHODS DESCRIBED IN TECHNICAL SPECIFICATIONS, EXCEPT AS NOTED.
6. EXTRUSION WELDING SHALL NOT BE USED TO JOIN NEW AND EXISTING GEOMEMBRANES.
7. FOR LINER TIE-IN, REMOVE ANY CRACKED OR OTHERWISE UNSUITABLE EXISTING ADMIX TO THE SATISFACTION OF THE CONTRACTOR.
8. SEAM BETWEEN NEW AND EXISTING ADMIX SHALL BE 3H:1V (TYPICAL) AND NO STEEPER THAN 2.75H:1V.
9. KNEAD NEW ADMIX THOROUGHLY INTO EXISTING ADMIX.
10. ALL LAYERS OF NEW LINER SYSTEM SHALL BE CONTINUOUS WITH CORRESPONDING LAYERS IN EXISTING LINER.
11. REMOVE PIPING INCLUDING 45° FITTING, AND BUTT FUSE COLLECTION PIPE FOR 7 AND 8 TO EXISTING 5 AND 6 COLLECTION PIPES.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borland 10/9/07

0600X-SC-G0524 05-19 031

500X524A00

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JOHN CARL BRIESE — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
LINER TERMINATION DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0284.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0284	0

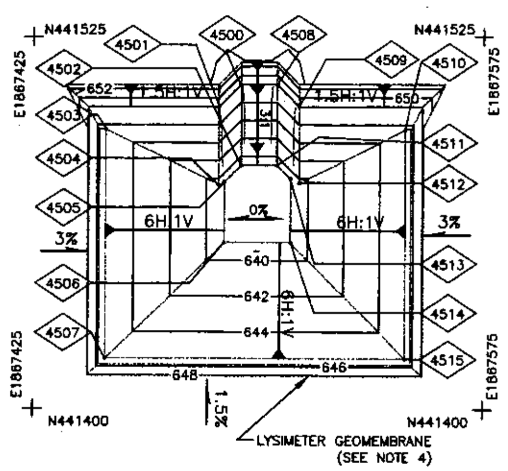
DOCUMENT CONTROL mec 10/11/07

RECORD INFORMATION

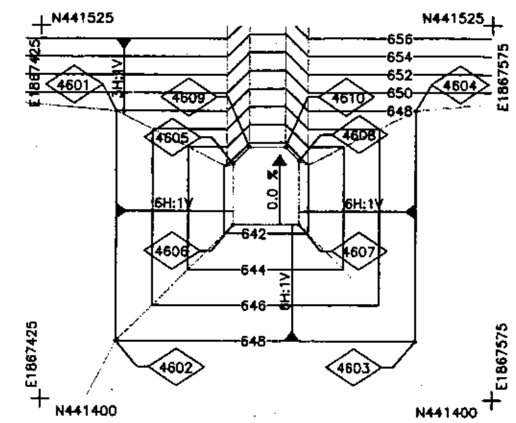
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15864 SHT1	600G	0111

River Corridor Closure Contract WCH Dedicated To Safety Excellence

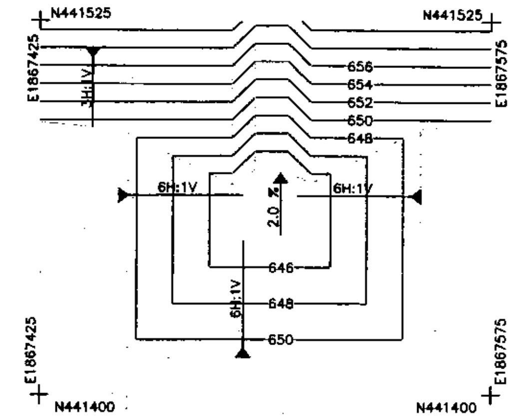
DRAWING NO.	REV. NO.
0600X-DD-C0285	0



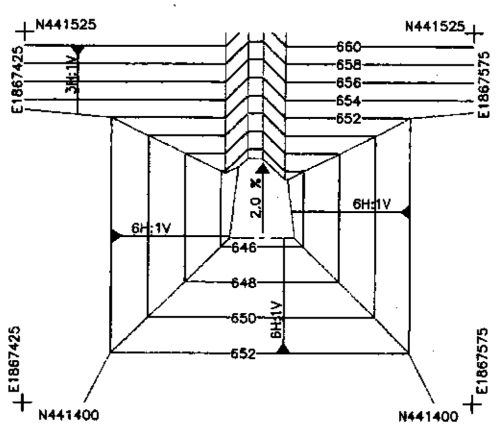
CELL 7 SUMP
(6) LYSIMETER SUMP PLAN



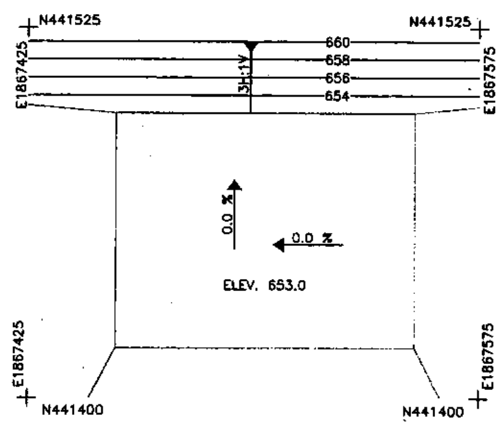
CELL 7 SUMP
(1) SUBGRADE CONTROL
0600X-DD-C0267,C0269



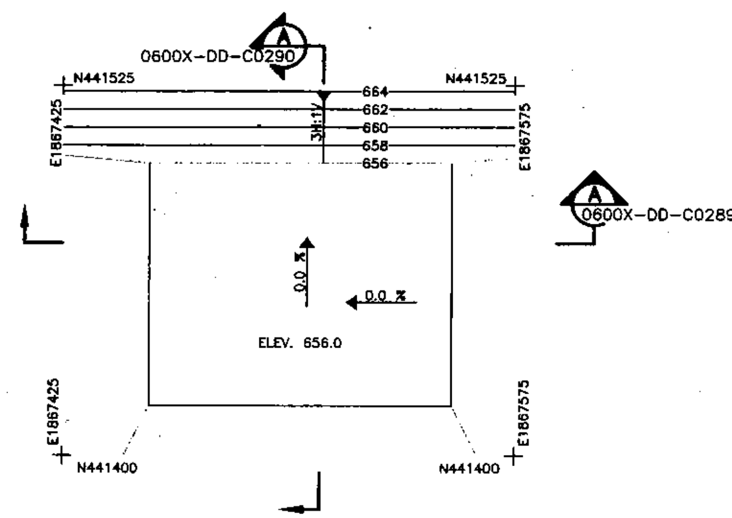
CELL 7 SUMP
(2) COMPACTED ADMIX LAYER
0600X-DD-C0271



CELL 7 SUMP
(3) SECONDARY DRAINAGE LAYER
0600X-DD-C0273



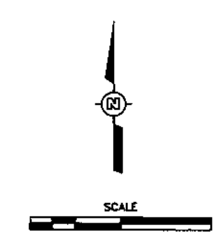
CELL 7 SUMP
(4) PRIMARY DRAINAGE LAYER
0600X-DD-C0275



CELL 7 SUMP
(5) OPERATIONS LAYER
0600X-DD-C0277

SUBGRADE CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4500	441508.97	1867498.51	648.00	LYS-RISER TRENCH	4513	441477.46	1867515.00	639.00	LYS-FLR OF SUMP					
4501	441501.47	1867491.01	648.00	LYS-RISER TRENCH	4514	441456.00	1867515.00	639.00	LYS-FLR OF SUMP					
4502	441481.97	1867498.51	639.00	LYS-FLR OF SUMP	4515	441417.00	1867554.00	645.50	LYS-TOP OF SUMP					
4503	441493.97	1867454.00	645.50	LYS-TOP OF SUMP	4601	441493.97	1867454.00	648.00	SG-TOP OF SUMP					
4504	441475.47	1867491.01	639.33	LYS-SLOPE BRK	4602	441417.00	1867454.00	648.00	SG-TOP OF SUMP					
4505	441476.46	1867493.00	639.00	LYS-FLR OF SUMP	4603	441417.00	1867554.00	648.00	SG-TOP OF SUMP					
4506	441456.00	1867493.00	639.00	LYS-FLR OF SUMP	4604	441493.97	1867554.00	648.00	SG-TOP OF SUMP					
4507	441417.00	1867454.00	645.50	LYS-TOP OF SUMP	4605	441476.46	1867493.00	641.50	SG-FLOOR OF SUMP					
4508	441508.97	1867510.49	649.00	LYS-RISER TRENCH	4606	441456.00	1867493.00	641.50	SG-FLOOR OF SUMP					
4509	441501.47	1867517.99	648.00	LYS-RISER TRENCH	4607	441456.00	1867515.00	641.50	SG-FLOOR OF SUMP					
4510	441493.97	1867554.00	645.50	LYS-TOP OF SUMP	4608	441477.46	1867515.00	641.50	SG-FLOOR OF SUMP					
4511	441481.97	1867510.49	639.00	LYS-FLR OF SUMP	4609	441481.97	1867498.51	641.50	SG-RISER TRENCH					
4512	441475.97	1867517.99	639.50	LYS-SLOPE BRK	4610	441481.97	1867510.49	641.50	SG-RISER TRENCH					



River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

NOTES

1. ELEVATIONS SHOWN ARE NOMINAL. ACTUAL ELEVATIONS SHALL BE DETERMINED BY MINIMUM REQUIRED COMPONENT THICKNESS PER GRADING TOLERANCE ON DWG NO. 0600X-DD-C0281.
2. SURVEY DATUM
VERTICAL NAVD: 88
HORIZONTAL NAD: 83 (91)
3. LYSIMETER SUMP LOCATED BELOW SUBGRADE LEVEL. SUBGRADE FOR LYSIMETER ACCESS PIPE NOT SHOWN IN ENTIRETY. SUBGRADE BREAK LINES SHOWN FOR REFERENCE.
4. SEE 0600X-DD-C0289 AND 0600X-DD-C0290 FOR EXTENT OF LYSIMETER GEOMEMBRANE LIMITS.

0600X-SC-G0524 05-19 032
SOOX524A00

RECEIVED
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WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mec 10/11/07

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JOHN CARL BRIGHT, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/DSGN	CHK/DSGN	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP LAYOUT PLAN - CELL 7

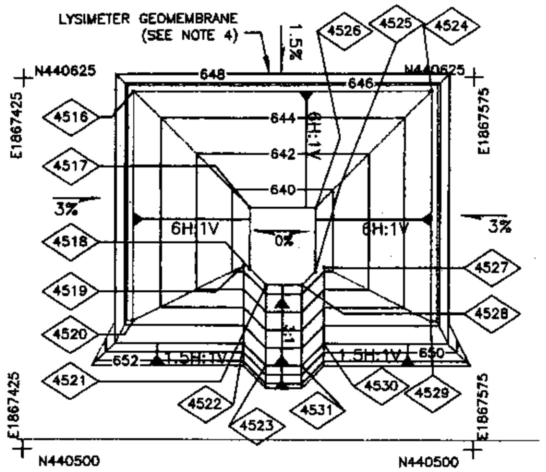
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0285.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0285	0

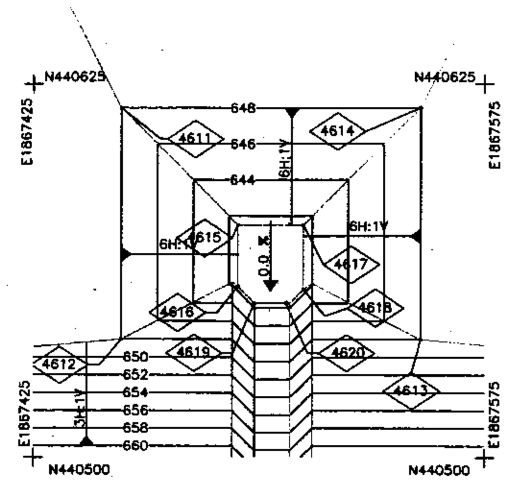
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15865 SHT01	600G	0111

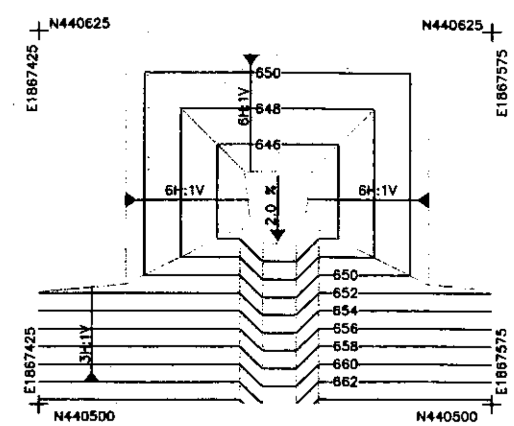
DRAWING NO.	REV. NO.
0600X-DD-C0286	0



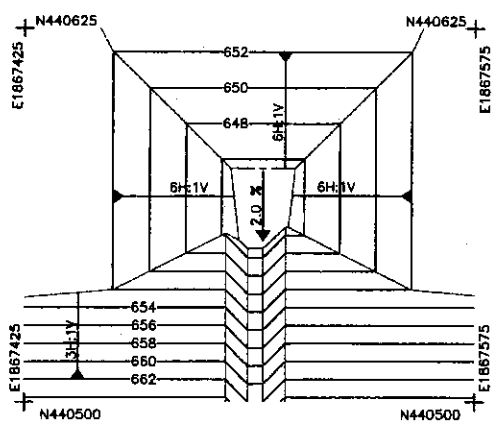
CELL 8 SUMP
6 LYSIMETER SUMP PLAN



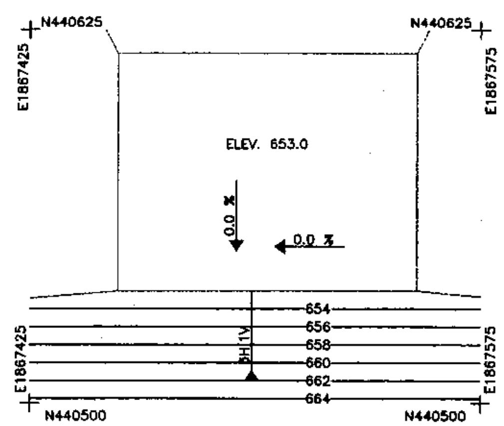
CELL 8 SUMP
1 SUBGRADE CONTROL
0600X-DD-C0267,269



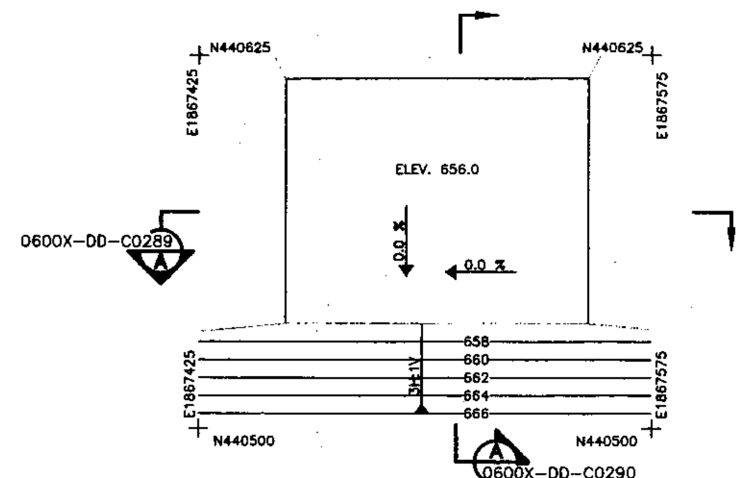
CELL 8 SUMP
2 COMPACTED ADMIX LAYER
0600X-DD-C0271



CELL 8 SUMP
3 SECONDARY DRAINAGE LAYER
0600X-DD-C0273



CELL 8 SUMP
4 PRIMARY DRAINAGE LAYER
0600X-DD-C0275



CELL 8 SUMP
5 OPERATIONS LAYER
0600X-DD-C0277

SUBGRADE CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4516	440617.00	1867454.00	645.50	LYS-TOP OF SUMP	4529	440540.03	1867554.00	645.50	LYS-TOP OF SUMP					
4517	440578.00	1867493.00	639.00	LYS-FLR OF SUMP	4530	440532.53	1867517.99	648.00	LYS-RISER TRENCH					
4518	440557.54	1867493.00	639.00	LYS-FLR OF SUMP	4531	440525.03	1867510.49	648.00	LYS-RISER TRENCH					
4519	440558.53	1867491.01	639.33	LYS-SLOPE BRK	4611	440617.00	1867454.00	648.00	SG-TOP OF SUMP					
4520	440540.03	1867454.00	645.50	LYS-TOP OF SUMP	4612	440540.03	1867454.00	648.00	SG-TOP OF SUMP					
4521	440552.03	1867498.51	639.00	LYS-TOP OF SUMP	4613	440540.03	1867554.00	648.00	SG-TOP OF SUMP					
4522	440532.53	1867491.01	648.00	LYS-RISER TRENCH	4614	440617.00	1867554.00	648.00	SG-TOP OF SUMP					
4523	440525.03	1867498.51	648.00	LYS-RISER TRENCH	4615	440578.00	1867493.00	641.50	SG-FLR OF SUMP					
4524	440617.00	1867554.00	645.50	LYS-TOP OF SUMP	4616	440557.54	1867493.00	641.50	SG-FLR OF SUMP					
4525	440578.00	1867515.00	639.00	LYS-FLR OF SUMP	4617	440578.00	1867515.00	641.50	SG-FLR OF SUMP					
4526	440556.54	1867515.00	639.00	LYS-FLR OF SUMP	4618	440556.54	1867515.00	641.50	SG-FLR OF SUMP					
4527	440558.03	1867517.99	639.50	LYS-SLOPE BRK	4619	440552.03	1867498.51	641.50	SG-RISER TRENCH					
4528	440552.03	1867510.49	639.00	LYS-FLR OF SUMP	4620	440552.03	1867509.16	641.50	SG-RISER TRENCH					

SCALE
0 30 FT 60 FT

NOTES

1. ELEVATIONS SHOWN ARE NOMINAL. ACTUAL ELEVATIONS SHALL BE DETERMINED BY MINIMUM REQUIRED COMPONENT THICKNESS PER GRADING TOLERANCE ON DWG NO. 0600X-DD-C0281.
2. SURVEY DATUM
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)
3. LYSIMETER SUMP LOCATED BELOW SUBGRADE LEVEL. SUBGRADE FOR LYSIMETER ACCESS PIPE NOT SHOWN IN ENTIRETY. SUBGRADE BREAK LINES SHOWN FOR REFERENCE.
4. SEE 0600X-DD-C0289 AND 0600X-DD-C0290 FOR EXTENT OF LYSIMETER GEOMEMBRANE LIMITS.

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0600X-SC-60524 05-19 033
500X524A00

DOCUMENT CONTROL MBC 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BREST, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ DATA	CHK'D CHK	SYS DATA	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP LAYOUT PLAN - CELL 8

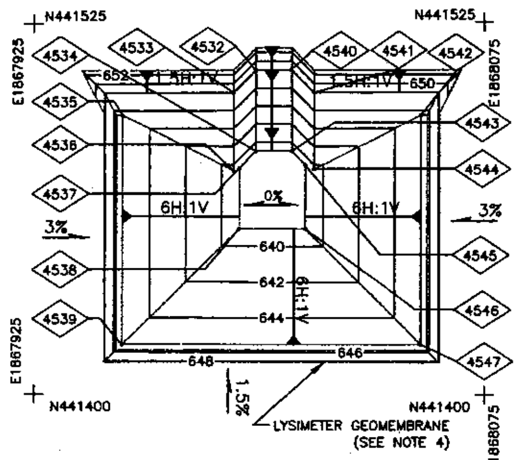
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0286.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0286	0

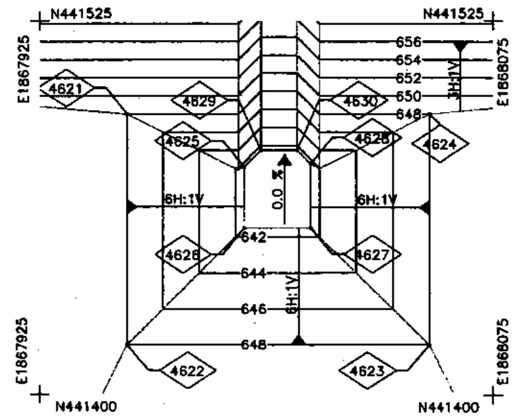
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15866 SHT01	600G	0111

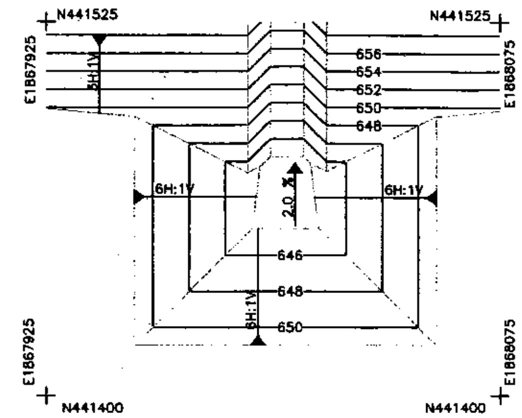
DRAWING NO.	REV. NO.
0600X-DD-C0287	0



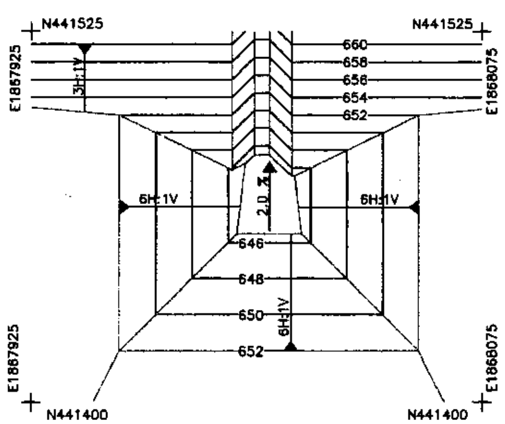
CELL 9 SUMP
(6) LYSIMETER SUMP PLAN



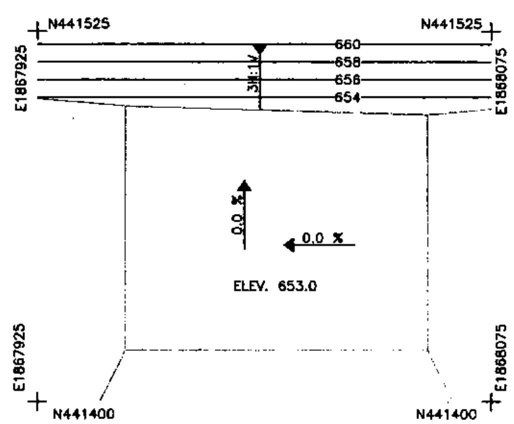
CELL 9 SUMP
(1) SUBGRADE CONTROL
0600X-DD-C0268



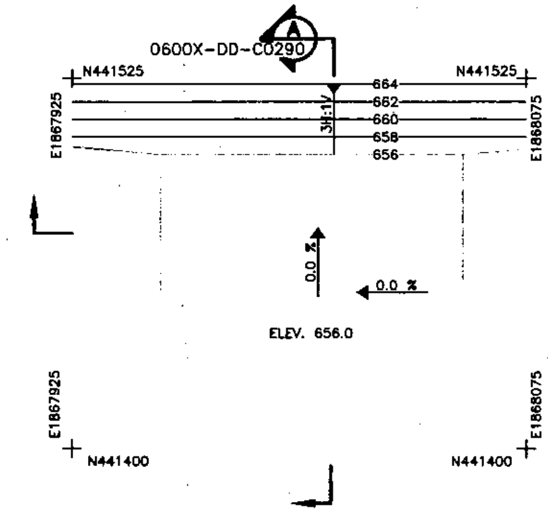
CELL 9 SUMP
(2) COMPACTED ADMIX LAYER
0600X-DD-C0272



CELL 9 SUMP
(3) SECONDARY DRAINAGE LAYER
0600X-DD-C0274



CELL 9 SUMP
(4) PRIMARY DRAINAGE LAYER
0600X-DD-C0276



CELL 9 SUMP
(5) OPERATIONS LAYER
0600X-DD-C0278

NOTES

1. ELEVATIONS SHOWN ARE NOMINAL. ACTUAL ELEVATIONS SHALL BE DETERMINED BY MINIMUM REQUIRED COMPONENT THICKNESS PER GRADING TOLERANCE ON DWG NO. 0600X-DD-C0281.
2. SURVEY DATUM
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)
3. LYSIMETER SUMP LOCATED BELOW SUBGRADE LEVEL. SUBGRADE FOR LYSIMETER ACCESS PIPE NOT SHOWN IN ENTIRETY. SUBGRADE BREAK LINES SHOWN FOR REFERENCE.
4. SEE 0600X-DD-C0289 AND 0600X-DD-C0290 FOR EXTENT OF LYSIMETER GEOMEMBRANE LIMITS.

0600X-DD-C0290
0600X-DD-C0289

S00X524 A00

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DOCUMENT CONTROL MLc 10/11/07

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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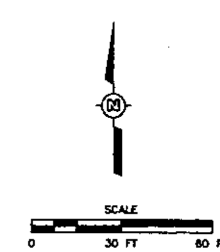
JOHN CARL BRISK — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

SUBGRADE CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4532	441508.97	1867998.51	648.00	LYS-RISER TRENCH	4545	441477.46	1868015.00	639.00	LYS-FLR OF SUMP					
4533	441501.47	1867991.01	648.00	LYS-RISER TRENCH	4546	441456.00	1868015.00	639.00	LYS-FLR OF SUMP					
4534	441481.97	1867998.51	639.00	LYS-FLR OF SUMP	4547	441417.00	1868054.00	645.50	LYS-TOP OF SUMP					
4535	441493.97	1867954.00	645.50	LYS-TOP OF SUMP	4621	441493.97	1867954.00	648.00	SG-TOP OF SUMP					
4536	441475.47	1867991.01	639.33	LYS-SLOPE BRK	4622	441417.00	1867954.00	648.00	SG-TOP OF SUMP					
4537	441476.46	1867993.00	639.00	LYS-FLR OF SUMP	4623	441417.00	1868054.00	648.00	SG-TOP OF SUMP					
4538	441456.00	1867993.00	639.00	LYS-FLR OF SUMP	4624	441493.97	1868054.00	648.00	SG-TOP OF SUMP					
4539	441417.00	1867954.00	645.50	LYS-TOP OF SUMP	4625	441476.46	1867993.00	641.50	SG-FLOOR OF SUMP					
4540	441508.97	1868010.49	648.00	LYS-RISER TRENCH	4626	441456.00	1867993.00	641.50	SG-FLOOR OF SUMP					
4541	441501.47	1868017.99	648.00	LYS-RISER TRENCH	4627	441456.00	1868015.00	641.50	SG-FLOOR OF SUMP					
4542	441493.97	1868054.00	645.50	LYS-TOP OF SUMP	4628	441477.46	1868015.00	641.50	SG-FLOOR OF SUMP					
4543	441481.97	1868010.49	639.00	LYS-FLR OF SUMP	4629	441481.97	1867998.51	641.50	SG-RISER TRENCH					
4544	441475.97	1868017.99	639.50	LYS-SLOPE BRK	4630	441481.97	1868010.49	641.50	SG-RISER TRENCH					



RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15867 SHT01	600G	0111

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS. ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB	[illegible]	RH	N/A	JB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

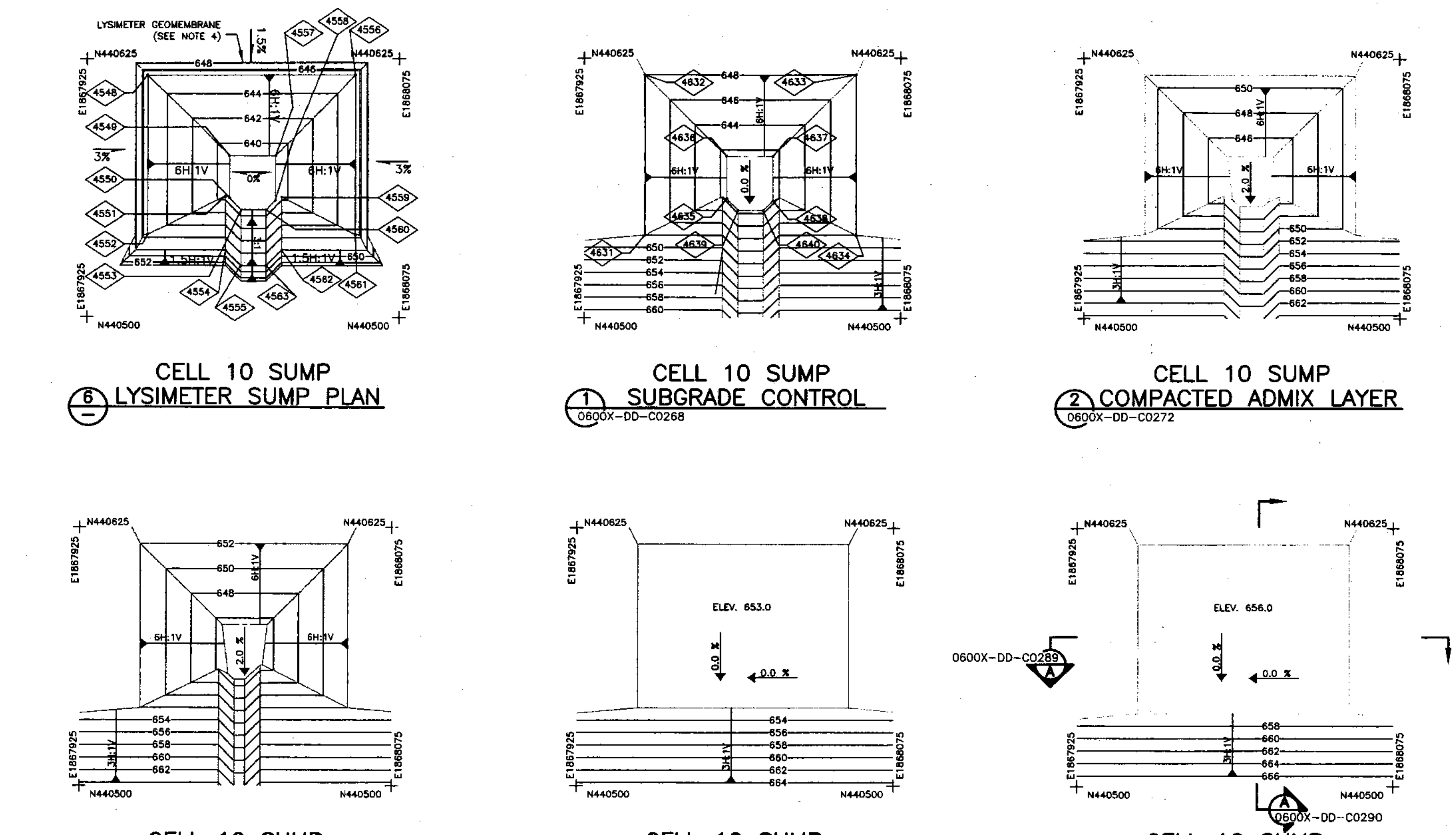
WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP LAYOUT PLAN - 9

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0287.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0287	0

DRAWING NO.	REV. NO.
0600X-DD-C0288	0



CELL 10 SUMP
6 LYSIMETER SUMP PLAN

CELL 10 SUMP
1 SUBGRADE CONTROL
0600X-DD-C0268

CELL 10 SUMP
2 COMPACTED ADMIX LAYER
0600X-DD-C0272

CELL 10 SUMP
3 SECONDARY DRAINAGE LAYER
0600X-DD-C0274

CELL 10 SUMP
4 PRIMARY DRAINAGE LAYER
0600X-DD-C0276

CELL 10 SUMP
5 OPERATIONS LAYER
0600X-DD-C0278

NOTES

1. ELEVATIONS SHOWN ARE NOMINAL. ACTUAL ELEVATIONS SHALL BE DETERMINED BY MINIMUM REQUIRED COMPONENT THICKNESS PER GRADING TOLERANCE ON DWG NO. 0600X-DD-C0281.
2. SURVEY DATUM
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)
3. LYSIMETER SUMP LOCATED BELOW SUBGRADE LEVEL. SUBGRADE FOR LYSIMETER ACCESS PIPE NOT SHOWN IN ENTIRETY. SUBGRADE BREAK LINES SHOWN FOR REFERENCE.
4. SEE 0600X-DD-C0289 AND 0600X-DD-C0290 FOR EXTENT OF LYSIMETER GEOMEMBRANE LIMITS.

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OCT 08 2007
WCH - DOCUMENT CONTROL

0600X-SC-G0524 05-19 035
S00X524A00

DOCUMENT CONTROL mlc 10/11/07

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MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRINK, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DESIGN/DATE	DES CHK	PE/DATE	PROJ
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CSB		BJH	N/A	

SCALE: AS SHOWN

SUBGRADE CONTROL POINTS COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
4548	440617.00	1867954.00	645.50	LYS-TOP OF SUMP	4561	440540.03	1868054.00	645.50	LYS-TOP OF SUMP					
4549	440578.00	1867993.00	639.00	LYS-FLR OF SUMP	4562	440532.53	1868017.99	648.00	LYS-RISER TRENCH					
4550	440557.54	1867993.00	639.00	LYS-SLOPE BRK	4563	440525.03	1868010.49	648.00	LYS-RISER TRENCH					
4551	440558.53	1867991.01	639.33	LYS-TOP OF SUMP	4631	440540.03	1867954.00	648.00	SG-TOP OF SUMP					
4552	440540.03	1867954.00	645.50	LYS-FLR OF SUMP	4632	440617.00	1867954.00	648.00	SG-TOP OF SUMP					
4553	440552.03	1867998.51	639.00	LYS-FLR OF SUMP	4633	440617.00	1868054.00	648.00	SG-TOP OF SUMP					
4554	440532.53	1867991.01	648.00	LYS-RISER TRENCH	4634	440540.03	1868054.00	648.00	SG-TOP OF SUMP					
4555	440525.03	1867998.51	648.00	LYS-RISER TRENCH	4635	440557.54	1867993.00	641.50	SG-FLOOR OF SUMP					
4556	440617.00	1868054.00	645.50	LYS-TOP OF SUMP	4636	440578.00	1867993.00	641.50	SG-FLOOR OF SUMP					
4557	440578.00	1868015.00	639.00	LYS-FLR OF SUMP	4637	440578.00	1868015.00	641.50	SG-FLOOR OF SUMP					
4558	440556.54	1868015.00	639.00	LYS-FLR OF SUMP	4638	440556.54	1868015.00	641.50	SG-FLOOR OF SUMP					
4559	440558.03	1868017.99	639.50	LYS-SLOPE BRK	4639	440552.03	1867998.51	641.50	SG-RISER TRENCH					
4560	440552.03	1868010.49	639.00	LYS-FLR OF SUMP	4640	440552.03	1868010.49	641.50	SG-RISER TRENCH					

SCALE 0 30 FT 60 FT

WCH River Corridor Closure Contract — Dedicated To Safety Excellence

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15868 SHT01	600G	0111

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

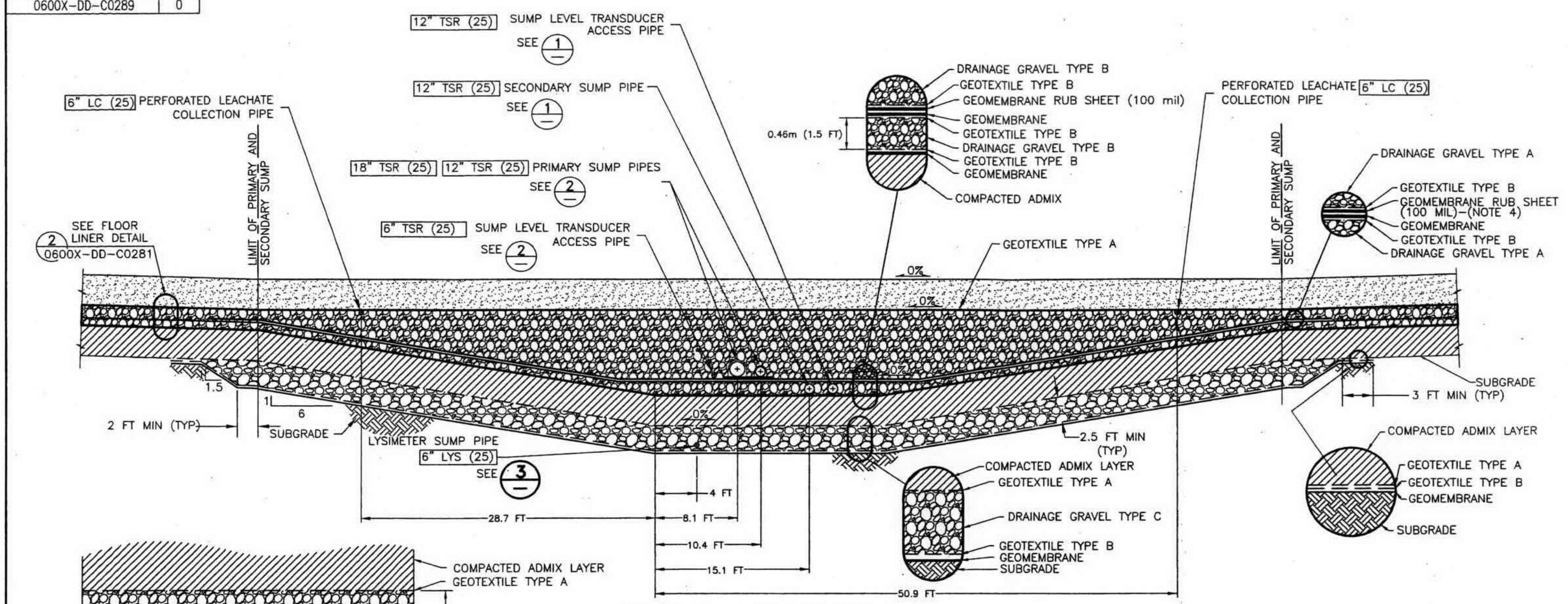
WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP LAYOUT PLAN - CELL 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0288.DWG

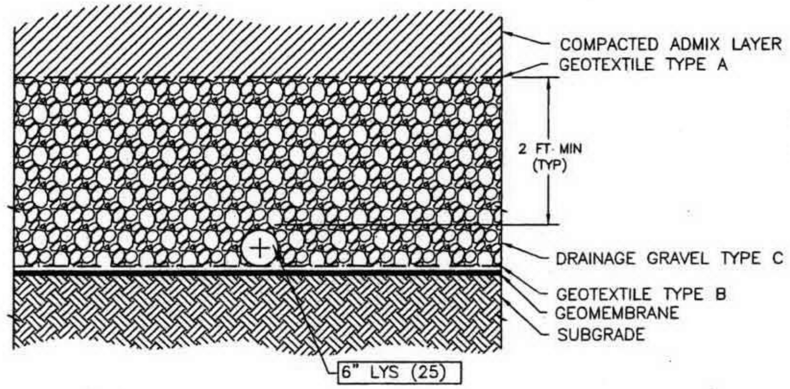
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0288	0

DRAWING NO.	REV. NO.
0600X-DD-C0289	0

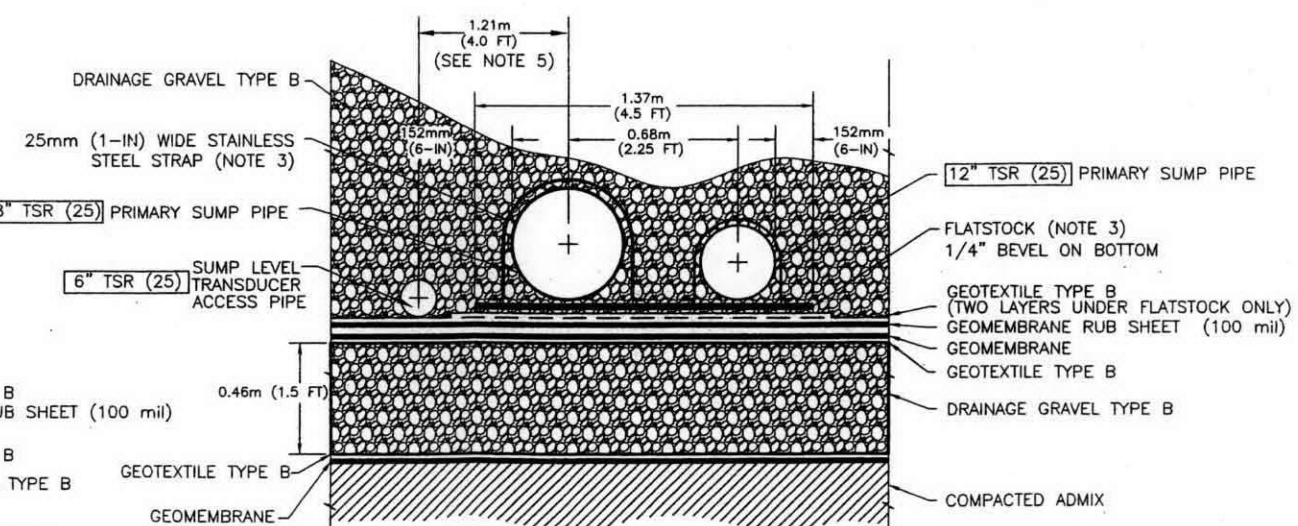


A TYPICAL SUMP SECTION
0600X-DD-C0285,C0286,C0287,C0288

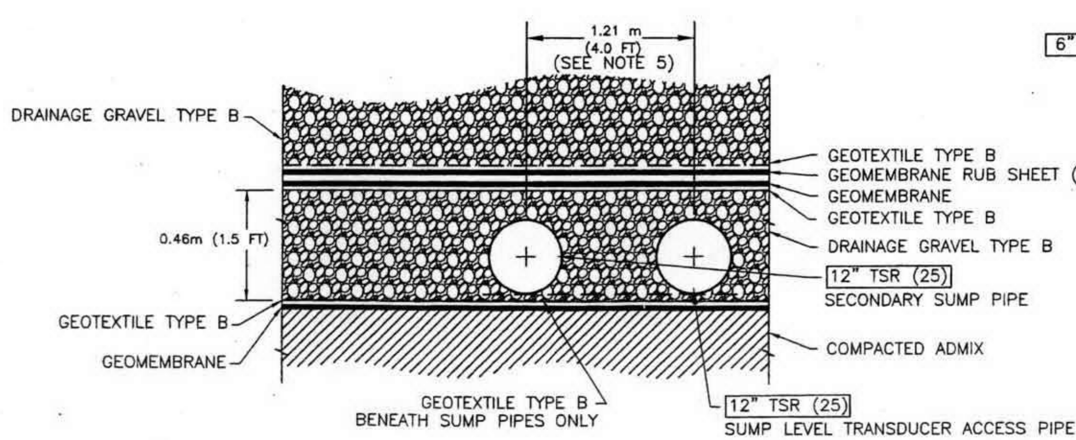
SCALE 0 6 12 feet



3 LYSIMETER SUMP PIPE
NTS



2 PRIMARY SUMP PIPES
NTS



1 SECONDARY SUMP PIPE
NTS

NOTES

1. LINER SYSTEM COMPONENT THICKNESS' EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. FLAT STOCK SHALL EXTEND UNDER ENTIRE LENGTH OF PIPES AND 152mm (6-IN) MIN BEYOND PIPE END. ANCHOR PIPES TO FLAT STOCK WITH 25 mm (1-IN) WIDE SS STRAPS AT 1.52m (5 FT) INTERVALS. ATTACH STRAPS TO FLAT STOCK USING STAINLESS STEEL BOLTS AND WASHERS OR SCREWS. FASTENERS SHALL NOT PROTRUDE BEYOND BOTTOM OF FLATS. REFER TO TECHNICAL SPECIFICATIONS FOR PIPING, VALVES, AND SPECIALS REQUIREMENTS.
4. GEOMEMBRANE RUB SHEET (100mil) SHALL EXTEND 1.52m (5 FT) MIN ALONG SLOPE BEYOND LIMITS OF SUMP ALL AROUND. REFER TO TECHNICAL SPECIFICATIONS FOR CELL CONSTRUCTION GEOSYNTHETICS FOR MATERIAL HANDLING AND INSTALLATION REQUIREMENTS.
5. SUMP LEVEL TRANSDUCER PIPES IN BOTH SUMPS HAVE A 4-FT SEPERATION FROM THE SUMP PIPES WITHIN THE SUMP AND TRANSITION TO 2.25-FT ON THE SIDESLOPE.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP
Bill Borlaug 10/9/07
0600X-SC-G0524 05-19 036
500X524A00

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WCH - DOCUMENT CONTROL

DOCUMENT CONTROL 10/11/07

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JOHN CARL BRYANT — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB		BJH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP DETAILS - 1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0289.DWG

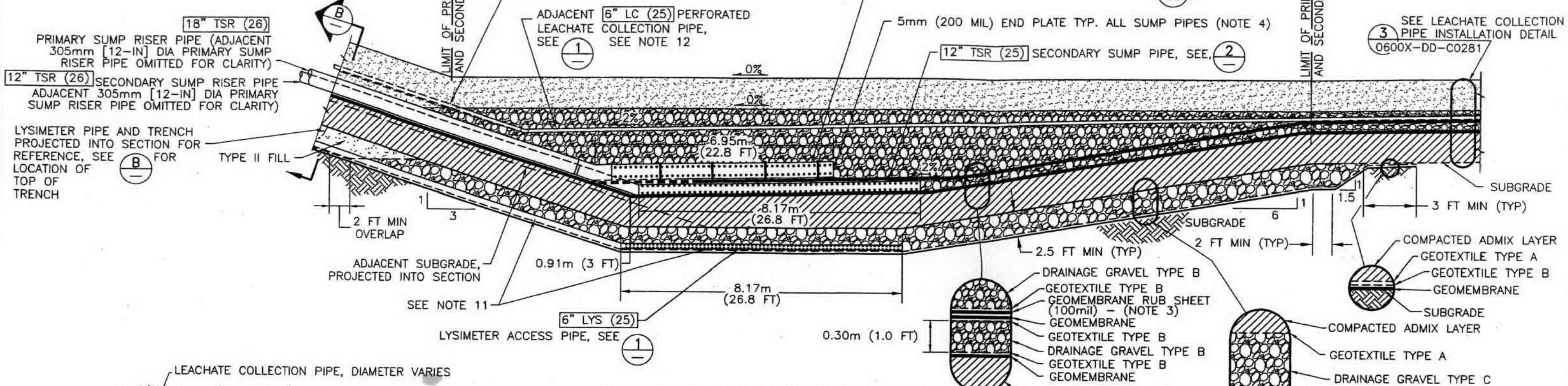
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0289	0

RECORD INFORMATION

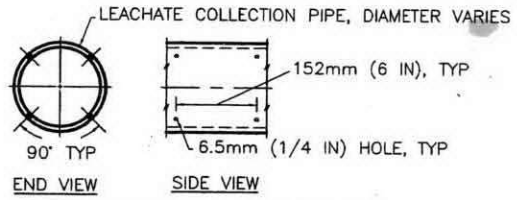
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15869 SHT01	600G	0111

River Corridor Closure Contract
WCH
Dedicated To Safety Excellence

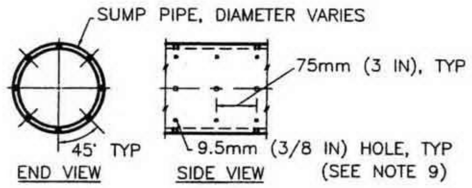
DRAWING NO.	REV. NO.
0600X-DD-C0290	0



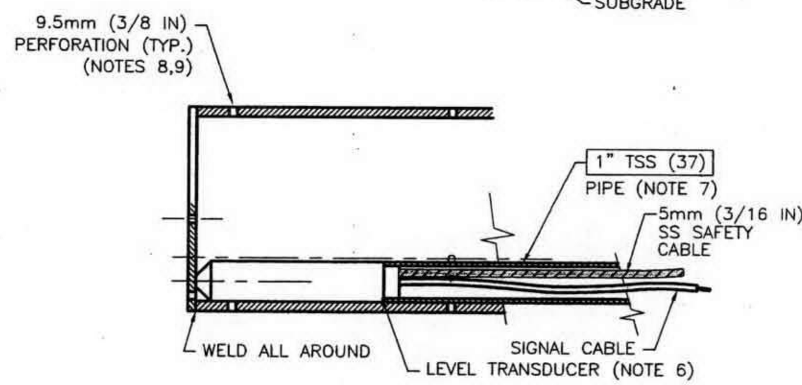
A TYPICAL SUMP SECTION
0600X-DD-C0285,C0286,C0287,C0288
SCALE 0 6 12 feet



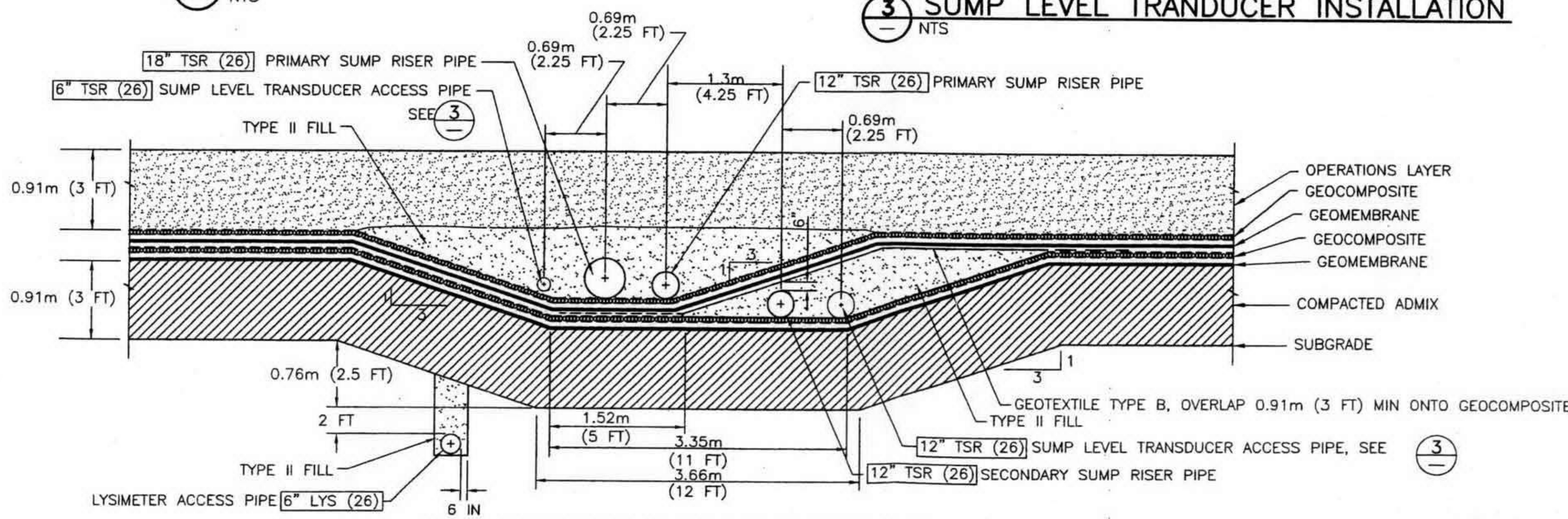
PERFORATION DETAIL,
1 LEACHATE COLLECTION PIPES
NTS



PERFORATION DETAIL,
2 SUMP PIPES
NTS



3 SUMP LEVEL TRANDUCER INSTALLATION
NTS



B SIDESLOPE RISER TRENCH SECTION
NTS

NOTES

1. LINER SYSTEM COMPONENT THICKNESSES EXAGGERATED FOR CLARITY.
2. REFER TO TECHNICAL SPECIFICATIONS FOR MATERIAL, HANDLING, AND INSTALLATION REQUIREMENTS.
3. RUB SHEET TO EXTEND 1.5m (5 FT) MIN ALONG SLOPE BEYOND LIMITS OF SUMP ALL AROUND.
4. WELD END PLATE TO SUMP PIPE ALL AROUND. ALTERNATIVELY, BOLT PLATE TO SUMP PIPE USING 8 BOLTS MINIMUM IN RADIAL PATTERN WITH WASHERS. BOLTS AND WASHERS SHALL BE STAINLESS STEEL.
5. LEACHATE REMOVAL PUMPS TO BE PLACED WITHIN PERFORATED SECTION OF SUMP PIPE AT LOWEST ELEVATION.
6. SENSOR AND CABLES NOT SHOWN IN SECTION.
7. JOINTS SHALL BE SOLVENT WELDED OR THREADED.
8. TRANSDUCER PIPE PERFORATION PATTERN IS IDENTICAL TO SUMP PIPE PERFORATION PATTERN.
9. PIPE ON FLOOR OF SUMP SHALL BE PERFORATED.
10. END OF PRIMARY SUMP LEVEL TRANSDUCER PIPE TO BE 3.0m (10 FT) FROM END OF ASSOCIATED SUMP PIPE. END OF SECONDARY SUMP LEVEL TRANSDUCER PIPE SHALL MATCH END OF SECONDARY SUMP PIPE.
11. FITTINGS SHALL NOT BE USED TO TRANSITION SIDE SLOPE LYSIMETER PIPE TO PERFORATED LYSIMETER PIPE IN SUMP. LYSIMETER PIPE BENDS SHALL BE MINIMUM NECESSARY FOR ALIGNMENT AND WITHIN MANUFACTURERS RECOMMENDATIONS.
12. TRANSITION FROM SOLID PIPE TO PERFORATED AT TOE OF SIDESLOPE.
13. SUMP LEVEL TRANSDUCER PIPES IN BOTH SUMPS HAVE A 4-FT SEPERATION FROM THE SUMP PIPES WITHIN THE SUMP AND TRANSITION TO 2.25-FT ON THE SIDESLOPE.

DOCUMENT CONTROL mle 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIEST, STATE OF WASHINGTON, 42158 REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655
Bill Borlaug 10/9/07
0600X-SC-G0524 05-19 037
S00X524A00

RECEIVED
OCT 08 2007
WCH - DOCUMENT CONTROL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB		BJH	MA	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SUMP DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0290.DWG

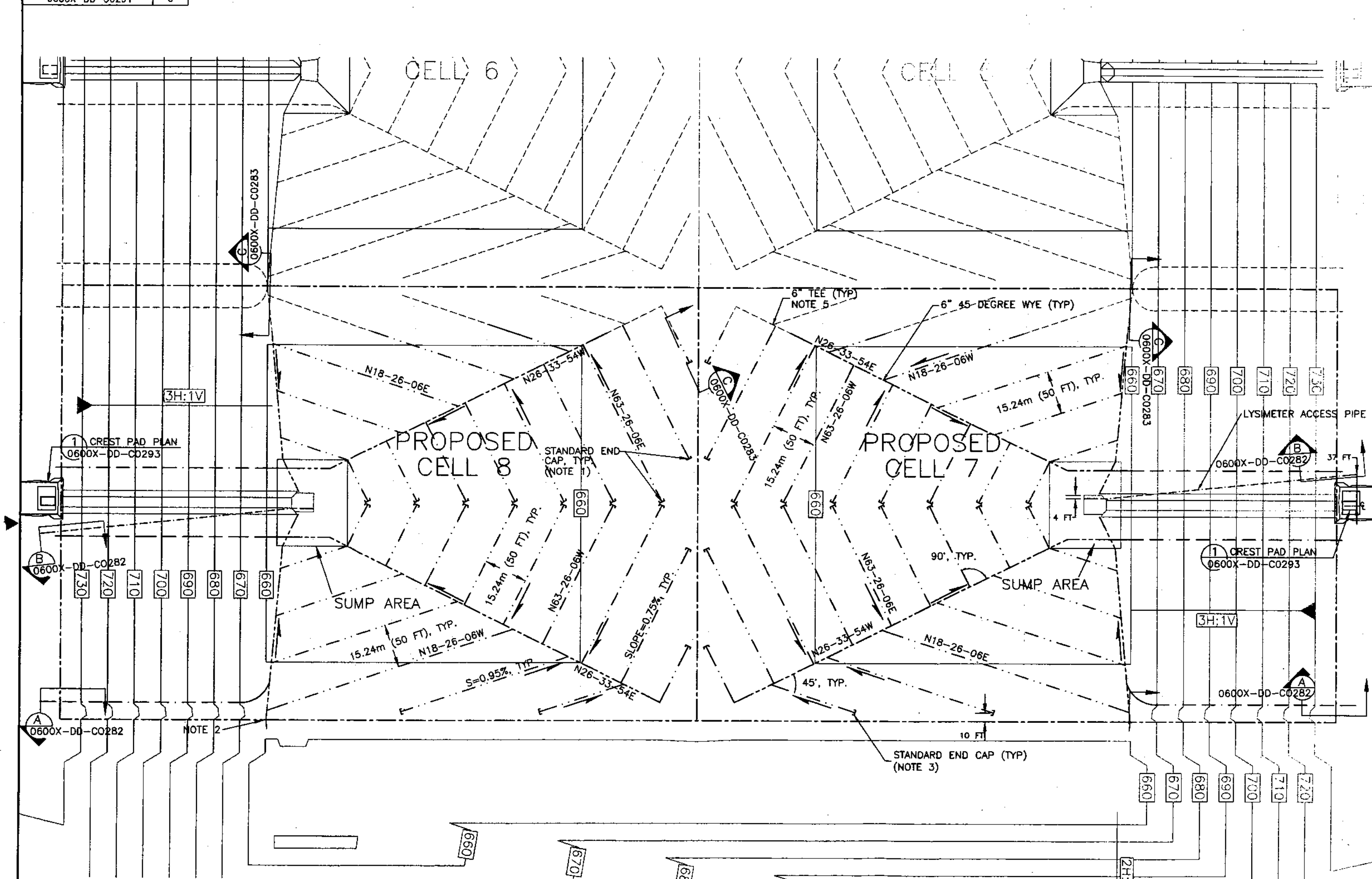
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0290	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15870 SHT01	600G	0111

River Corridor Closure Contract WCH Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0291	0



NOTES

1. ALL 102 mm (4-IN) PERF PIPE SHALL BE CONNECTED AT BOTH ENDS TO 152 mm (6-IN) PERF PIPE ONLY, WHERE POSSIBLE. OTHERWISE CLOSE WITH STANDARD END CAP.
2. CLEANOUT PIPES SHALL CROSS OVER EACH OTHER AND SHALL NOT BE INTERCONNECTED.
3. TERMINATE AND CAP ALL 102 mm (4-IN) LEACHATE COLLECTION PIPES 3.05 m (10 FT) FROM BOUNDARIES BETWEEN CELLS. TERMINATE AND CAP 152 mm (6-IN) PIPES WHERE SHOWN.
4. FOR CLARITY, SUMP RISER PIPES, SUMP LEVEL TRANSDUCER ACCESS PIPES, AND VADOSE ZONE MONITORING PIPES ARE NOT SHOWN.
5. PIPE CONNECTIONS SHALL BE 6" TEES WITH 6"X4" REDUCERS, OR 6" FABRICATED 45 DEGREE WYE THREE SEGMENT WITH 6"X4" REDUCER.
6. IN-CELL LEACHATE PIPING INSTALLED IN PRIMARY DRAINAGE LAYER ONLY.

LEGEND:

(line)	CONTOUR OR GRADE BREAK
(line)	4" LC (25) PERFORATED LEACHATE COLLECTION PIPE
(line)	6" LC (25) PERFORATED LEACHATE COLLECTION PIPE
(line)	6" LCC (26) CLEANOUT RISER
(line)	6" LYS (25)(26) LYSIMETER ACCESS PIPE
N18-26-06W	BEARING OF PIPE
(line)	EXISTING LEACHATE COLLECTION PIPE

DOCUMENT CONTROL mac 10/11/07

Best Available Copy

0 30' 60' 120'

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BREMS — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DRG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
IN-CELL LEACHATE PIPING PLAN - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0291.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0291	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15871 SHT01	600G	0111

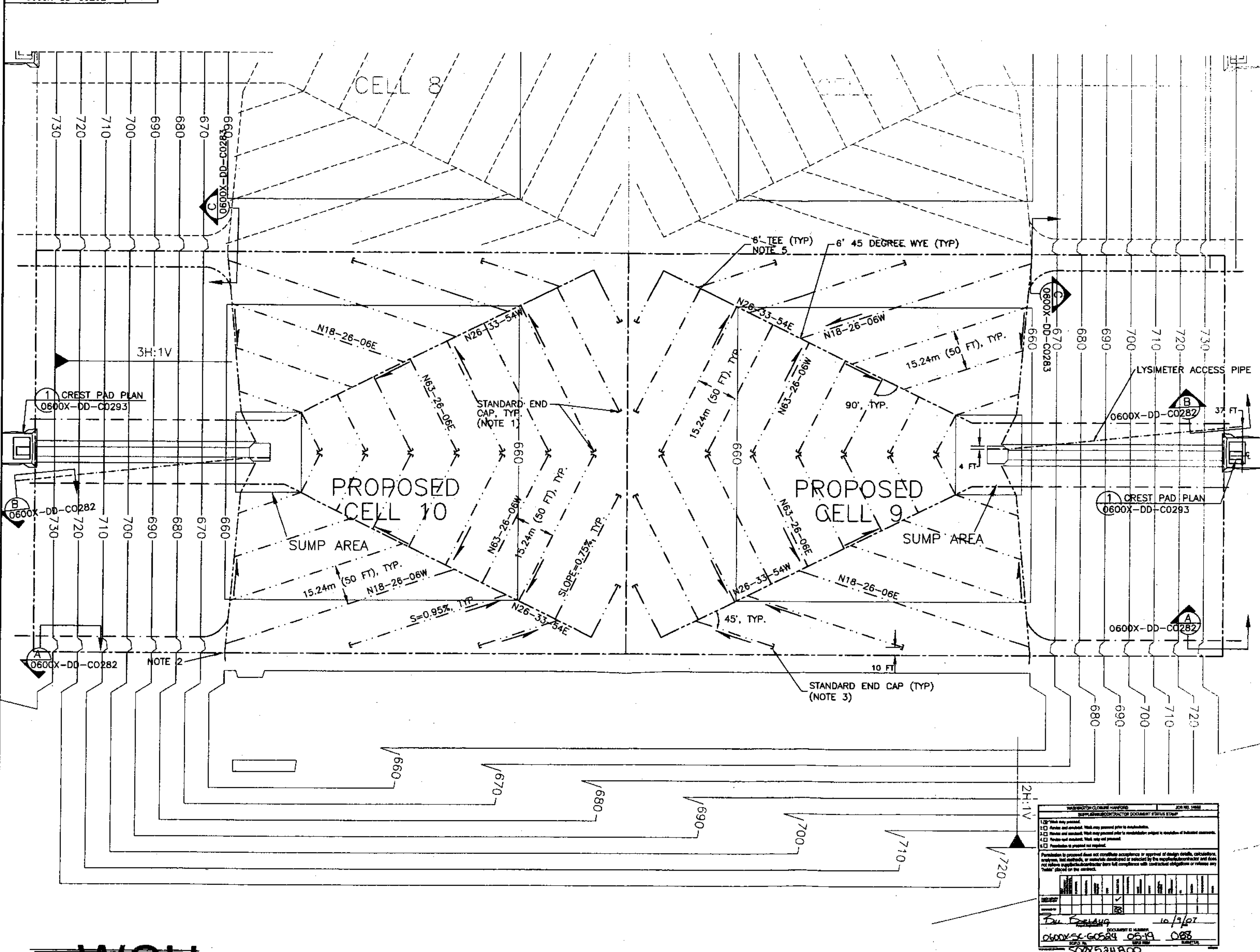
RECEIVED
OCT 08 2007
WCH - DOCUMENT CONTROL

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borghese 10/9/07
0600X-SC-G0524 05-19 038
SCOX524A00

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

DRAWING NO. 0600X-DD-C0292 REV. NO. 0



NOTES

1. ALL 102 mm (4-IN) PERF PIPE SHALL BE CONNECTED AT BOTH ENDS TO 152 mm (6-IN) PERF PIPE ONLY, WHERE POSSIBLE. OTHERWISE CLOSE WITH STANDARD END CAP.
2. CLEANOUT PIPES SHALL CROSS OVER EACH OTHER AND SHALL NOT BE INTERCONNECTED.
3. TERMINATE AND CAP ALL 102 mm (4-IN) LEACHATE COLLECTION PIPES 3.05 m (10 FT) FROM BOUNDARIES BETWEEN CELLS. TERMINATE AND CAP 152 mm (6-IN) PIPES WHERE SHOWN.
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6. IN-CELL LEACHATE PIPING INSTALLED IN PRIMARY DRAINAGE LAYER ONLY.

LEGEND:

Symbol	Description
———	CONTOUR OR GRADE BREAK
4" LC (25)	PERFORATED LEACHATE COLLECTION PIPE
6" LC (25)	PERFORATED LEACHATE COLLECTION PIPE
6" LCC (26)	CLEANOUT RISER
6" LYS (25)(26)	LYSIMETER ACCESS PIPE
N18-26-06W	BEARING OF PIPE
- - - -	EXISTING LEACHATE COLLECTION PIPE

DOCUMENT CONTROL 10/11/07

Best Available Copy

0 30' 60' 120'

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIGHT, STATE OF WASHINGTON, 42156, REGISTERED PROFESSIONAL ENGINEER 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/CHKR	ENG'R CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJV	CFB		BJH	N/A	JBB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
IN-CELL LEACHATE PIPING PLAN - CELLS 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0292.DWG

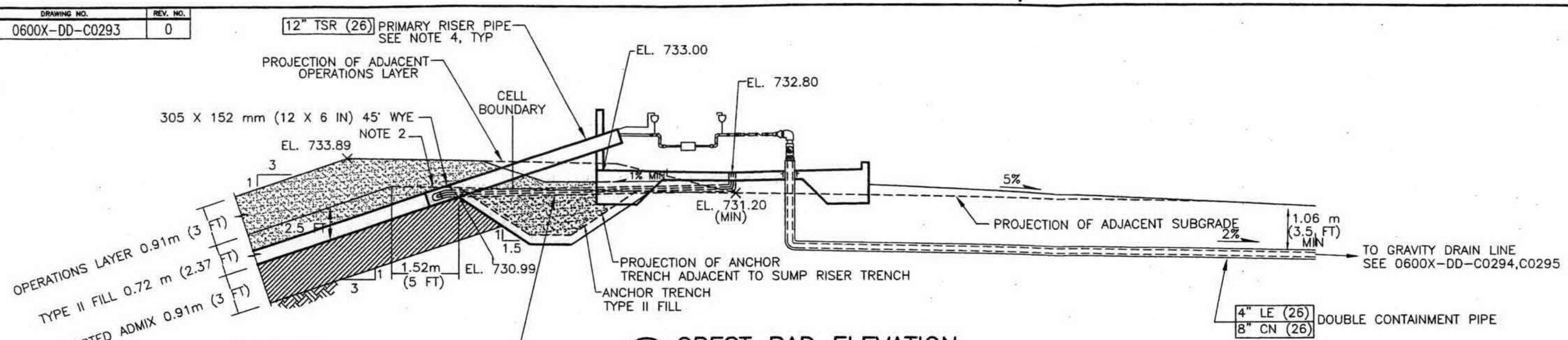
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0292	0

0600X-SC-G0524 05-19 088

RECORD INFORMATION

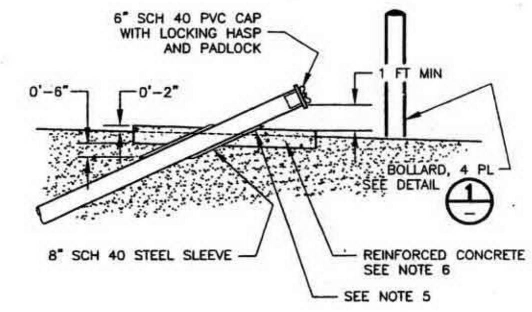
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15872 SHT01	600G	0111

DRAWING NO.	REV. NO.
0600X-DD-C0293	0

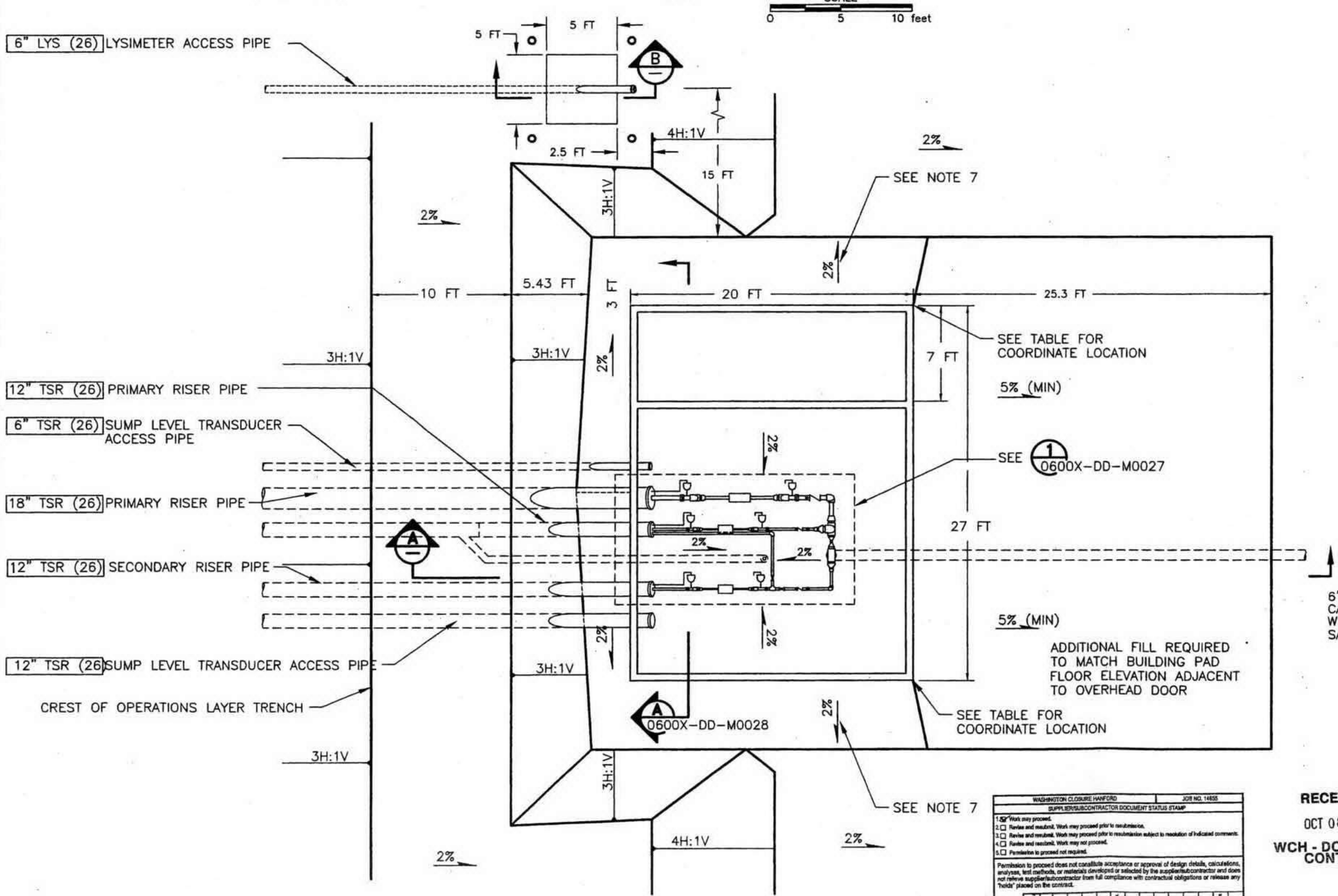


A CREST PAD ELEVATION

SCALE 0 5 10 feet

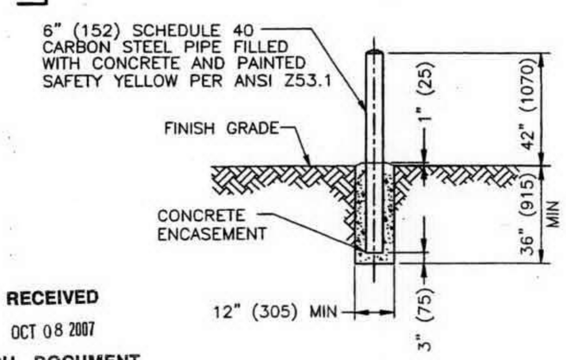


B LYSIMETER ACCESS PAD
0600X-DD-C0282, C0291, C0292 NTS



1 CREST PAD PLAN
0600X-DD-C0291, C0292

SCALE 0 5 10 feet



C BOLLARD DETAIL
0600X-DD-C0293, C0300 NTS

NOTES

1. CREST PAD BUILDING, PIPE SUPPORTS, AND JUNCTION BOXES NOT SHOWN.
2. WELD PRIMARY GEOMEMBRANE TO SECONDARY RISER PIPES ALL AROUND AT PENETRATION. BOOT MAY BE USED SUBJECT TO APPROVAL BY CONTRACTOR.
3. CREST PAD PLAN IS TYPICAL FOR CELLS 7, 8, 9 AND 10.
4. HDPE FUSION BUTT WELD JOINTS SHALL NOT BE MADE ABOVE NON-LINED AREA AT CREST PAD BUILDING TRANSITIONS.
5. FILL ANNULAR SPACE BETWEEN HDPE PIPE AND SLEEVE WITH FLEXIBLE SILICONE SEALANT.
6. 5-FOOT X 5-FOOT-6" THK REINFORCED CONCRETE SLAB ON GRADE W/ #5 REINFORCING BARS AT 12" OC EW. CENTER REINFORCING IN SLAB.
7. SLOPE 2% TO BLEND BACK INTO SURROUNDING GRADE.
8. CLEAN OUT RISERS ARE OUTSIDE THE VIEW OF THE CREST PAD PLAN.

CREST PAD BUILDING COORDINATE TABLE	
CELL 7 BUILDING	
NW CORNER N 441771.09 E 1867487.0	NE CORNER N 441771.09 E 1867514.0
CELL 8 BUILDING	
SW CORNER N 440262.91 E 1867494.0	SE CORNER N 440262.91 E 1867521.0
CELL 9 BUILDING	
NW CORNER N 441771.09 E 1867987.0	NE CORNER N 441771.09 E 1868014.0
CELL 10 BUILDING	
SW CORNER N 440262.91 E 1867994.0	SE CORNER N 440262.91 E 1868021.0

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JOHN CARL BRIEST, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'R	ORIG/ ENG'R	ENG'R CHK'R	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB	Sm	BJH	N/A	JB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
CREST PAD PLAN AND ELEVATION

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0293.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0293	0

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

Bill Borghardt 10/9/07
0600X-SC-G0524 0519 039
500X524A00

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OCT 08 2007
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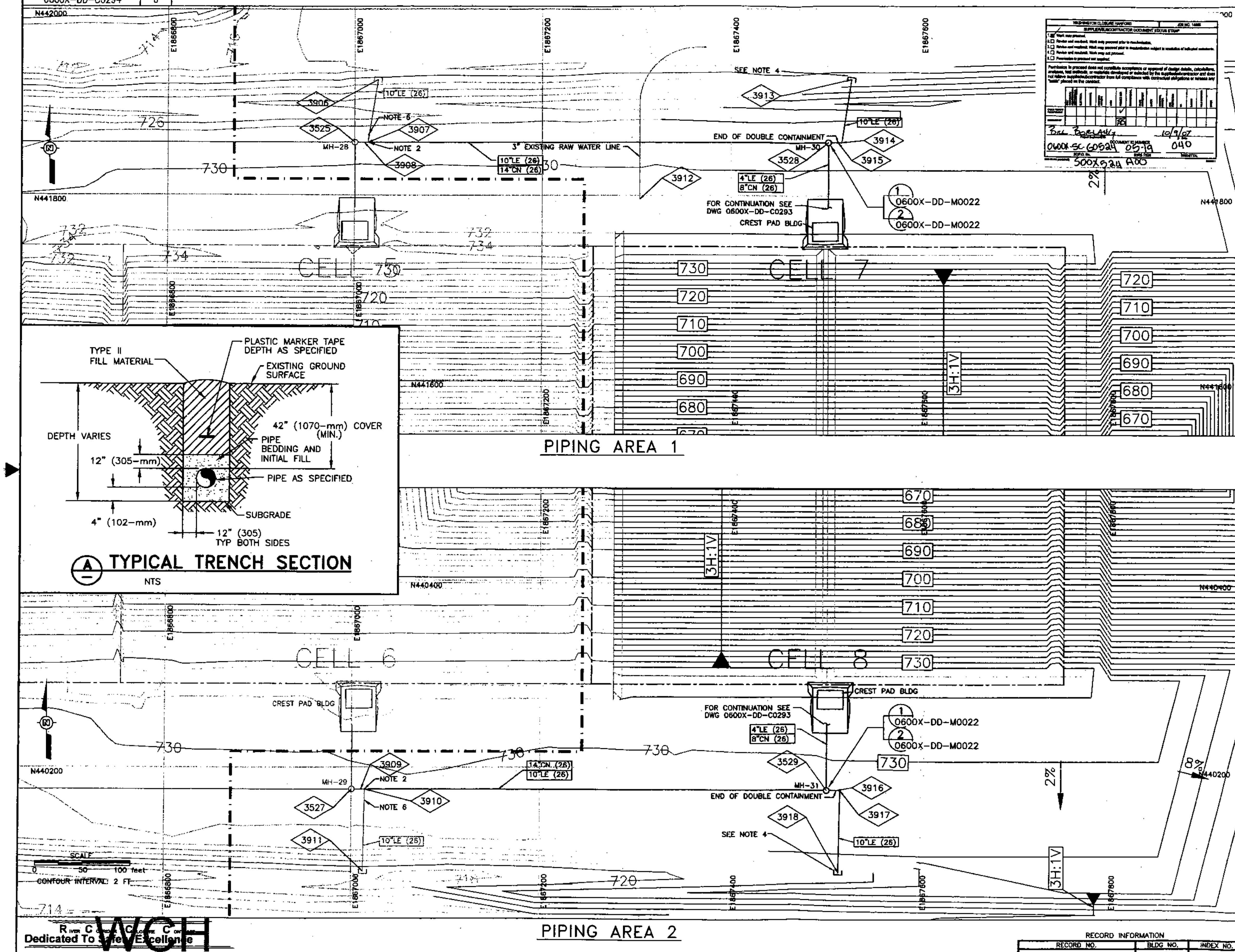
DOCUMENT CONTROL mec 10/11/07

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15873 SHT01	600G	0105

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

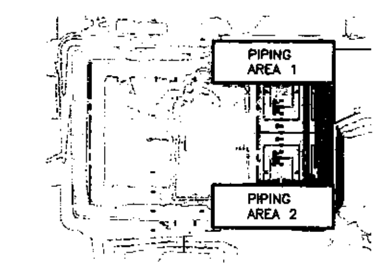
DRAWING NO.	REV. NO.
0600X-DD-C0294	0



NOTES

1. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
2. REMOVE EXISTING 90° ELL AND FUSION WELD NEW DOUBLE CONTAINMENT PIPE TO EXISTING. TIE-IN WORK IS CONSIDERED HAZARDOUS AND SHALL COMPLY WITH FEDERAL REGULATIONS AND WCH WORK PRACTICES FOR RADIOLOGICAL AND HAZARDOUS WORK.
3. SEE DRAWING 0600X-DD-M0023 FOR PIPING MATERIAL DESIGNATION.
4. CAPPED PIPE SHALL EXTEND 305mm(12") OUT FROM THE GROUND SURFACE.
5. SEE DRAWING 0600X-DD-C0261 FOR COORDINATE INFORMATION.
6. ABANDON EXISTING SINGLE CONTAINMENT "CLEAN" LEACHATE COLLECTION PIPE IN PLACE. REMOVE PORTION(S) OF PIPE AS NECESSARY FOR INSTALLATION OF NEW DOUBLE CONTAINMENT PIPE.

RECEIVED 0600X-SC-G0524-05-19-040
OCT 08 2007 S00X524 A00
WCH - DOCUMENT CONTROL



KEY PLAN

DOCUMENT CONTROL

Best Available Copy

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	CHK/ENGR	ENGR CHK	PROJ ENGR	PROJ MGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JSW	CSB		BJH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
YARD PIPING PLAN - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0294.DWG

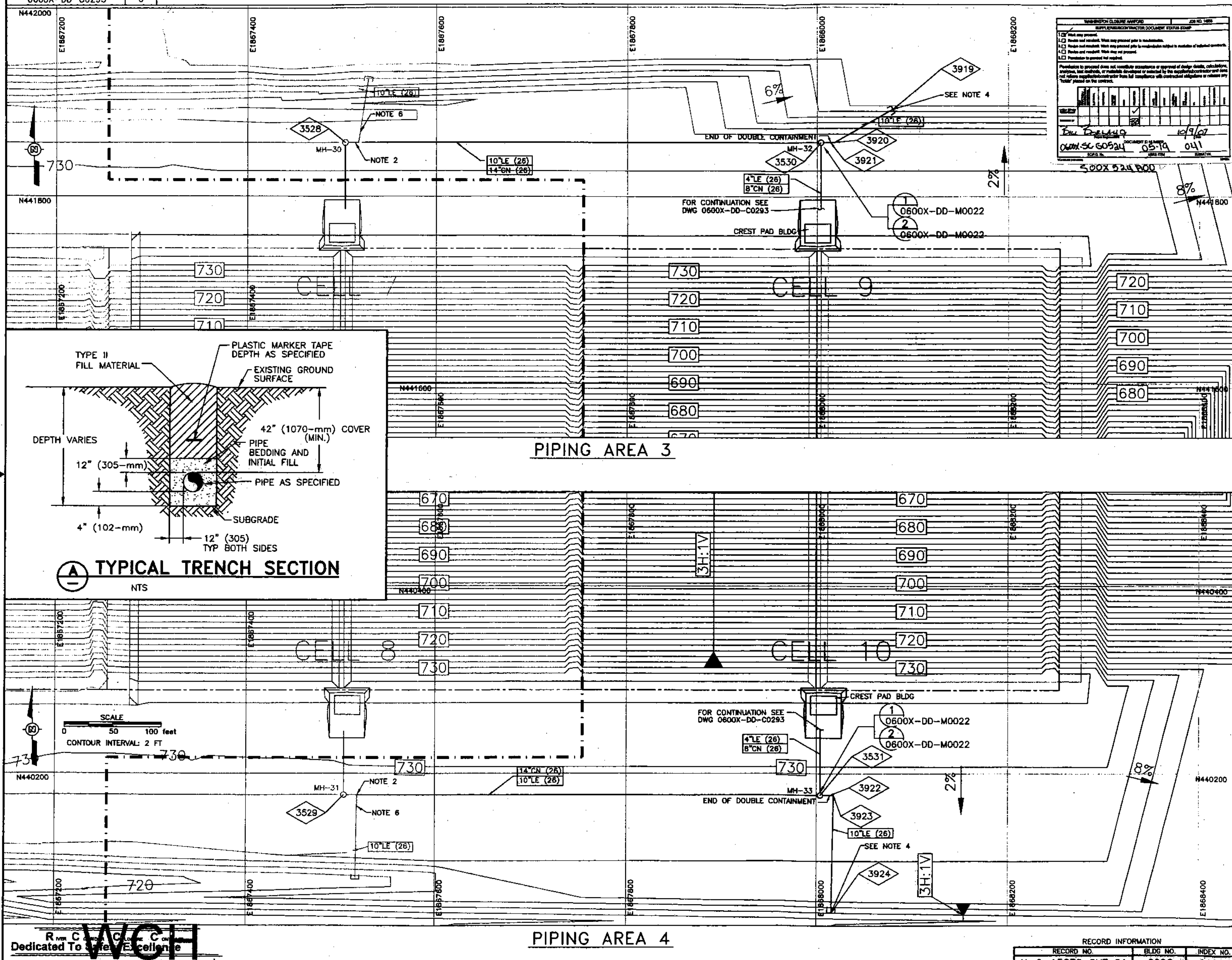
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0294	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15874 SHT 01	600G	0105

River Corridor Closure Contract — WCH — Dedicated To Safety & Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0295	0



A TYPICAL TRENCH SECTION
NTS

NOTES

1. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
2. REMOVE EXISTING 90° ELL AND FUSION WELD NEW DOUBLE CONTAINMENT PIPE TO EXISTING. TIE-IN WORK IS CONSIDERED HAZARDOUS AND SHALL COMPLY WITH FEDERAL REGULATIONS AND WCH WORK PRACTICES FOR RADIOLOGICAL AND HAZARDOUS WORK.
3. SEE DRAWING 0600X-DD-M0023 FOR PIPING MATERIAL DESIGNATION.
4. CAPPED PIPE SHALL EXTEND 305mm(12") OUT FROM THE GROUND SURFACE.
5. SEE DRAWING 0600X-DD-C0261 FOR COORDINATE INFORMATION.
6. ABANDON EXISTING SINGLE CONTAINMENT "CLEAN" LEACHATE COLLECTION PIPE IN PLACE. REMOVE PORTION(S) OF PIPE AS NECESSARY FOR INSTALLATION OF NEW DOUBLE CONTAINMENT PIPE.
7. TERMINATION LOCATED BY CONTRACTOR.

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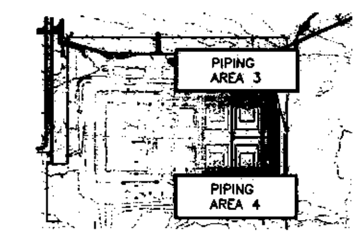
0600X-SC-G0524-05-19-041
500X524 A00



KEY PLAN

DOCUMENT CONTROL 10/11/07

Best Available Copy

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRISKE — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/26/07
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHKD	DESIGN CHKD	DESIGN CHKD	DISC ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CTB		AH	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
YARD PIPING PLAN - CELLS 9 &10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0295.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0295	0

RECORD INFORMATION

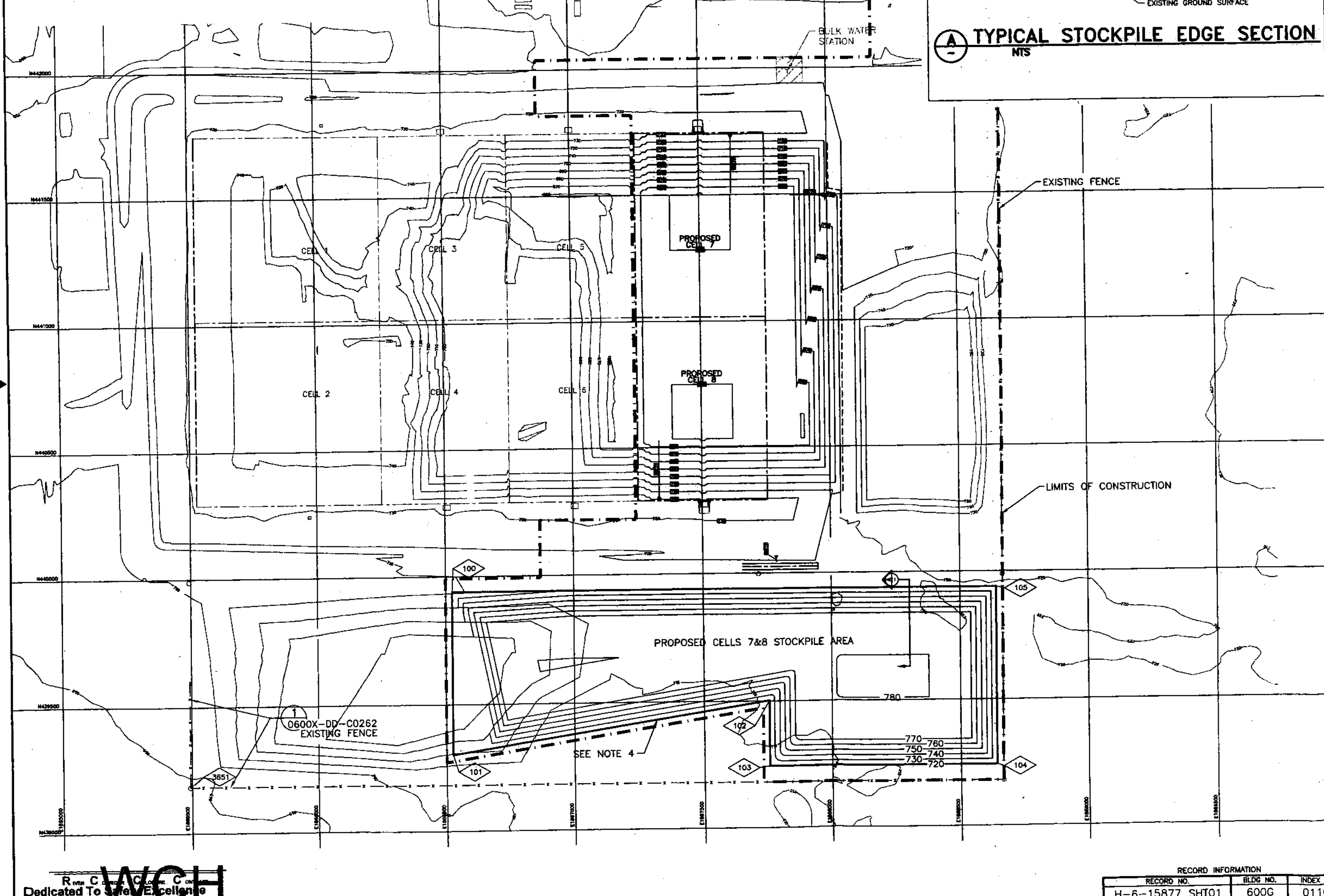
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15875 SHT 01	600G	0105

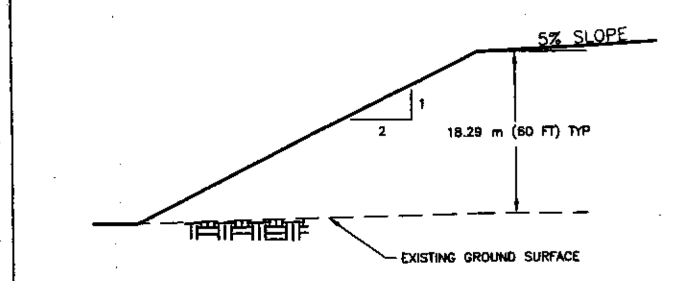
River Corridor Closure Contract — Dedicated To Safety Excellence — WCH

DRAWING NO.	REV. NO.
0600X-DD-C0297	0

STOCKPILE AREA CONTROL POINT COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	DESCRIPTION
100	439939.09	1888525.00	CELLS 7 & 8 STOCKPILE BOUNDARY
101	439301.90	1888525.00	CELLS 7 & 8 STOCKPILE BOUNDARY
102	439502.58	1887755.10	CELLS 7 & 8 STOCKPILE BOUNDARY
103	439245.71	1887755.10	CELLS 7 & 8 STOCKPILE BOUNDARY
104	439245.71	1888641.15	CELLS 7 & 8 STOCKPILE BOUNDARY
105	439939.09	1888641.15	CELLS 7 & 8 STOCKPILE BOUNDARY





A TYPICAL STOCKPILE EDGE SECTION
NTS

NOTES

1. STORE EXCAVATED MATERIALS IN STOCKPILE AREA.
2. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING, INC., DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
3. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)
4. MAINTAIN 25' MINIMUM BUFFER AROUND EXISTING FRENCH DRAIN WASTE SITES (SHOWN ON DRAWING 0600X-DD-C0259).

0600X-SC-G0524 05-19 0113
SOOX53A A00

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OCT 08 2007
WCH - DOCUMENT CONTROL

0 100' 200' 400'

DOCUMENT CONTROL mbc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIST, STATE OF WASHINGTON, 42155, REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'D	CHECK ENG'R	DSG'N CHK'D	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJV	CSB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
STOCKPILE PLAN - CELLS 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0297.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0297	0

RECORD INFORMATION

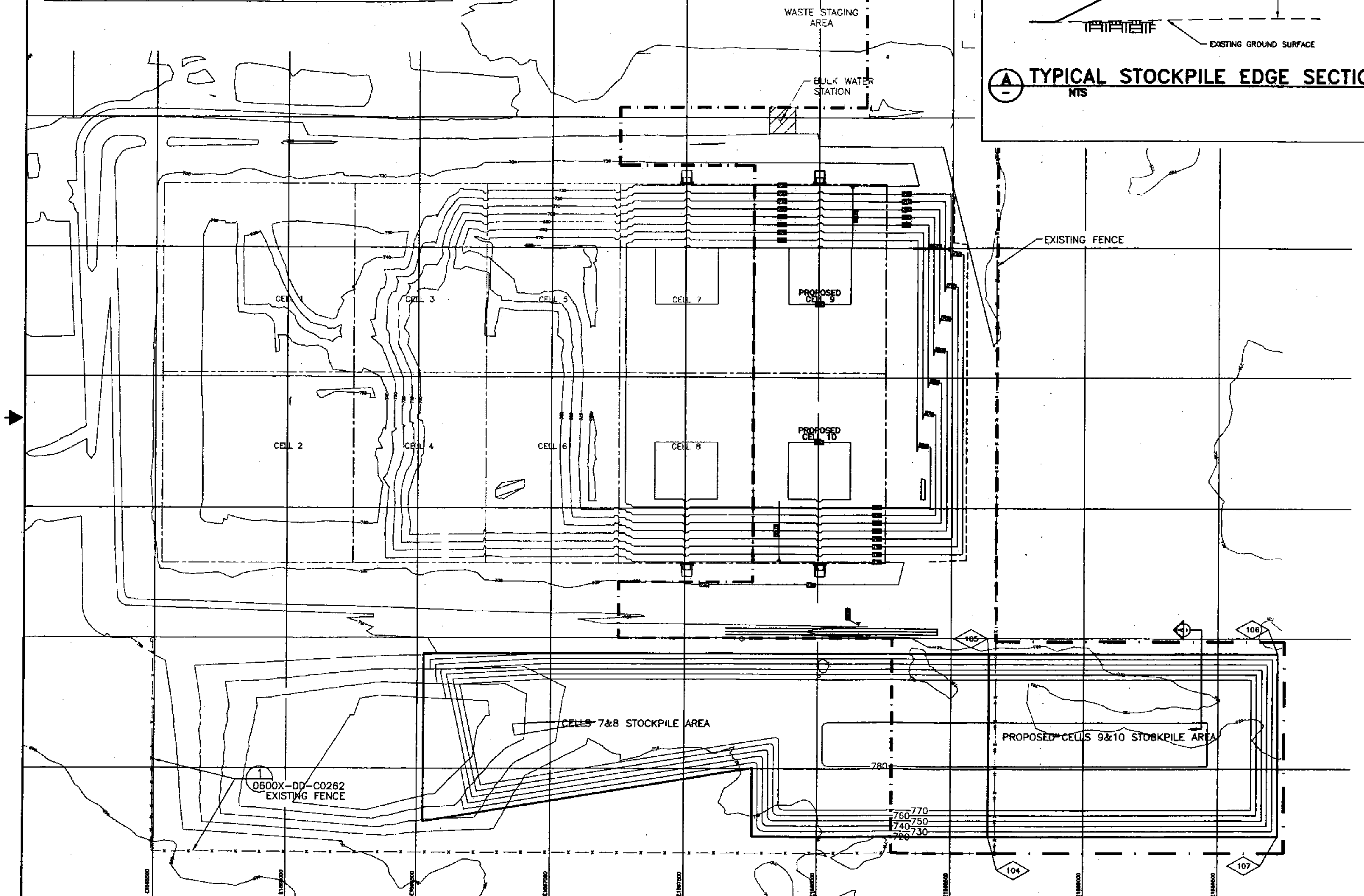
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15877 SHT01	600G	0110

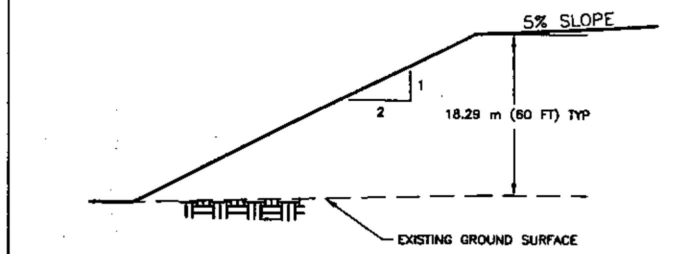
River Corridor Closure Contract WCH Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0298	0

STOCKPILE AREA CONTROL POINT COORDINATES (WASHINGTON STATE PLANE, FT)

POINT #	NORTHING	EASTING	DESCRIPTION
104	439245.71	1868641.15	CELLS 7,8,9&10 STOCKPILE BOUNDARY
105	439939.09	1868641.15	CELLS 7,8,9&10 STOCKPILE BOUNDARY
106	439939.09	1869725.00	CELLS 9 & 10 STOCKPILE BOUNDARY
107	439245.71	1869725.00	CELLS 9 & 10 STOCKPILE BOUNDARY





(A) TYPICAL STOCKPILE EDGE SECTION
NTS

NOTES

1. STORE EXCAVATED MATERIALS IN STOCKPILE AREA.
2. EXISTING CONTOURS FROM FIELD MAPPING PREPARED BY WALKER AND ASSOCIATES, PHOTOGRAMMETRY DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
3. SURVEY DATUM:
   VERTICAL NAVD 88
   HORIZONTAL NAD 83 (91)

N

0 100' 200' 400'

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Borghaug 10/9/07
0600X-SC-G0524 05-19 043
S00X524A00

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OCT 08 2007
WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mlc 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

THIS DRAWING HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

JOHN CARL BRIER — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJ	CJB	[illegible]	JJH	N/A	PB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
STOCKPILE PLAN - CELLS 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0298.DWG

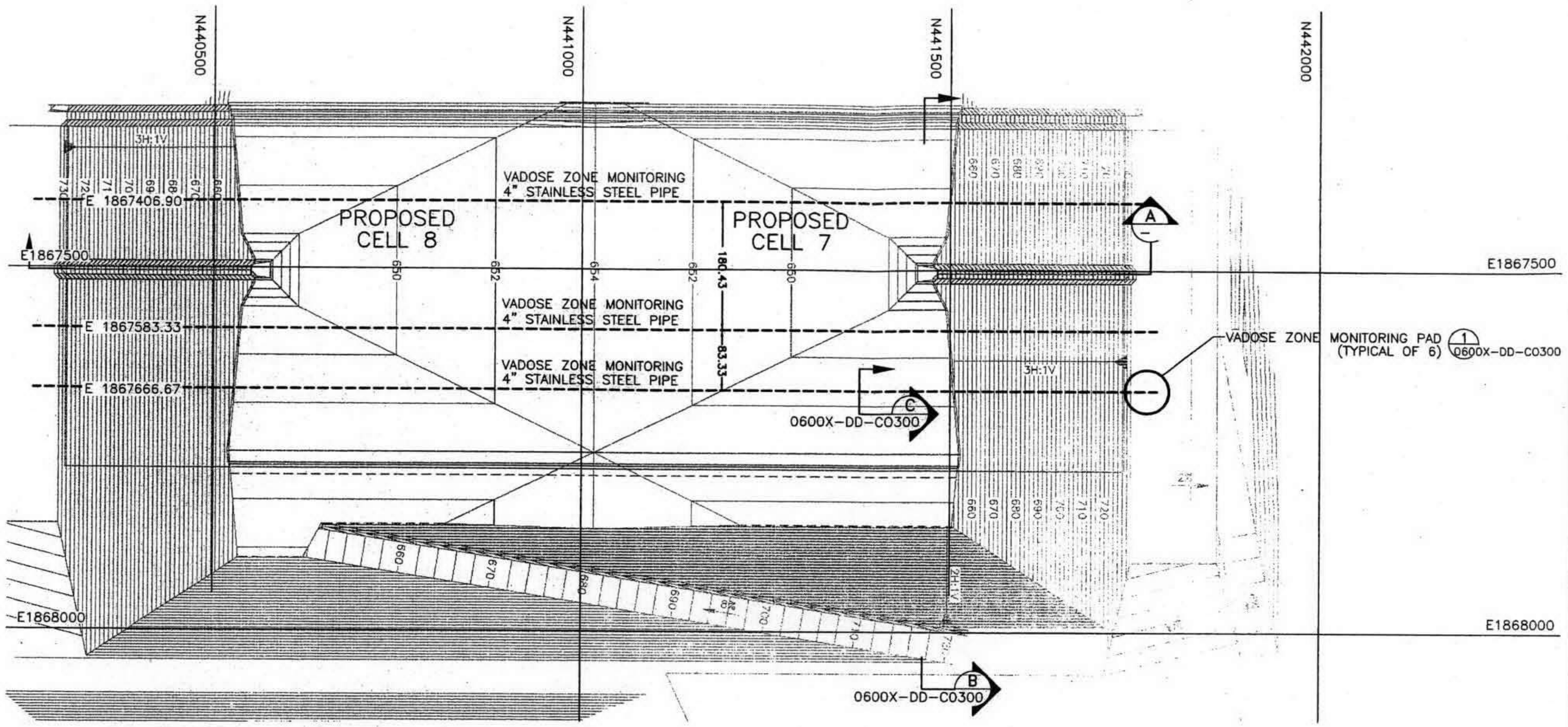
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0298	0

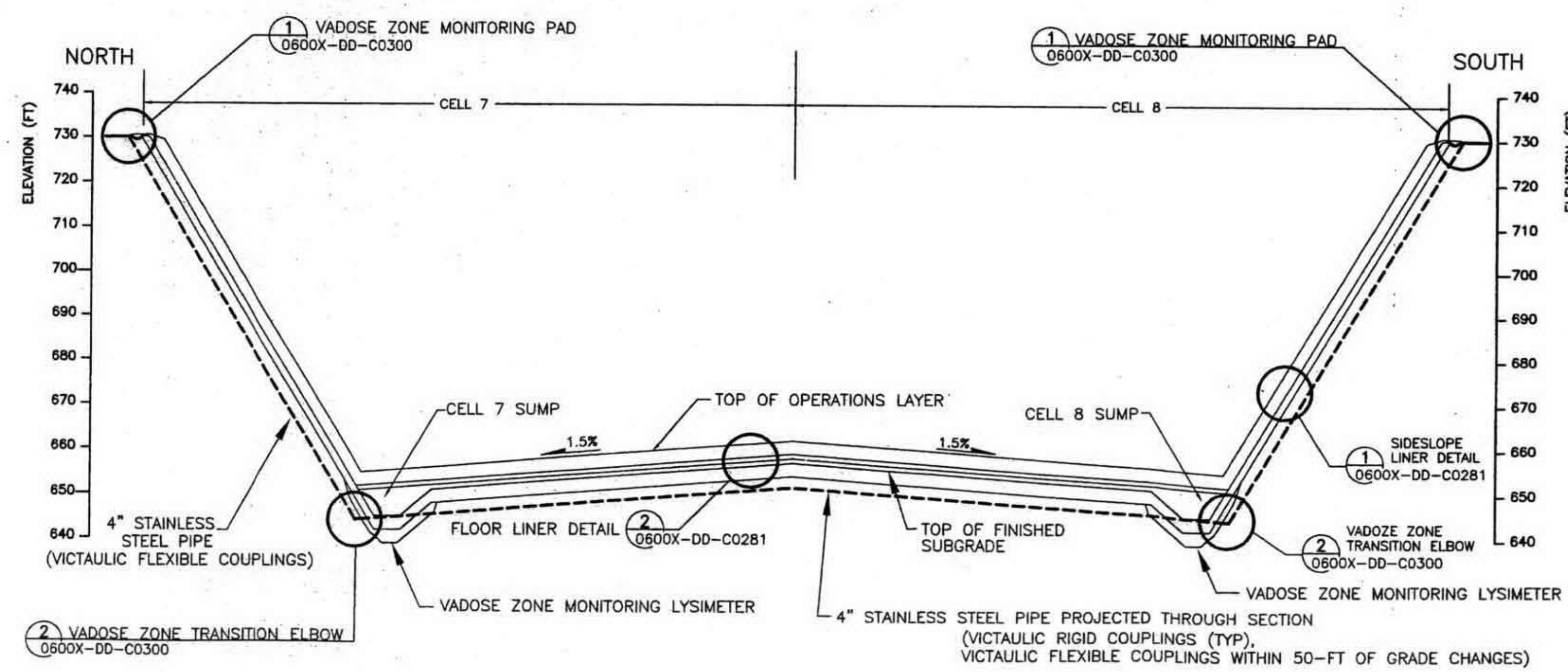
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15878 SHT01	600G	0110

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-C0299	0





A N-S SECTION

NOTES

1. GRADING TOLERANCES SHOWN ON DWG. NO. 0600-DD-C0281.
2. EXISTING CONTOURS FROM FIELD SURVEY PREPARED BY ROGERS SURVEYING INC. DATED JULY, 2006. TOPOGRAPHY DOES NOT REFLECT CHANGES FROM OPERATIONS SINCE JULY 2006. SUBCONTRACTOR SHALL CONSTRUCT FACILITIES TO THE FINISHED ELEVATIONS SHOWN.
3. SURVEY DATUM:
   VERTICAL NAVD: 88
   HORIZONTAL NAD: 83 (91)
4. MINIMIZE NUMBER OF VICTAULIC COUPLINGS ON VADOSE ZONE MONITORING PIPE.

N
0 50' 100' 200'

DOCUMENT CONTROL mlc 10/11/07

Best Available Copy

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BREKKE — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

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REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JV	CJB	[illegible]	BJH	N/A	[illegible]

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. — RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. — DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
VADOSE ZONE MONITORING SYSTEM

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0299.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0299	0

RECORD INFORMATION

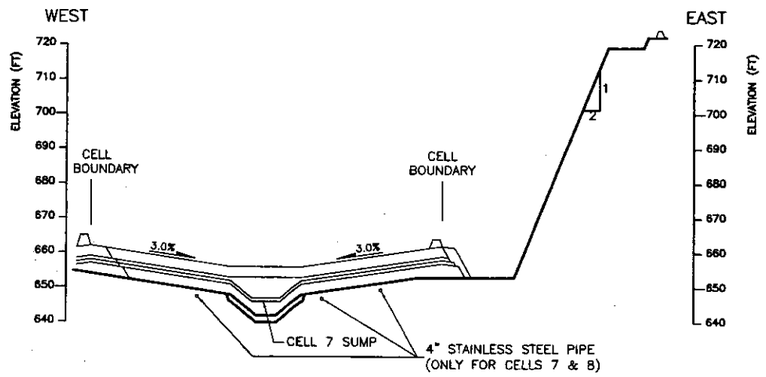
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15879 SHT 01	600G	0110

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP — JOB NO. 14655

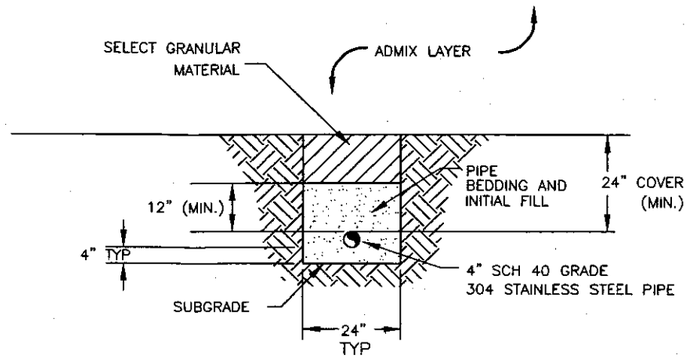
Bill Borland 10/9/07
0600X-SC-G0524 05-19 044
S00X524A00

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

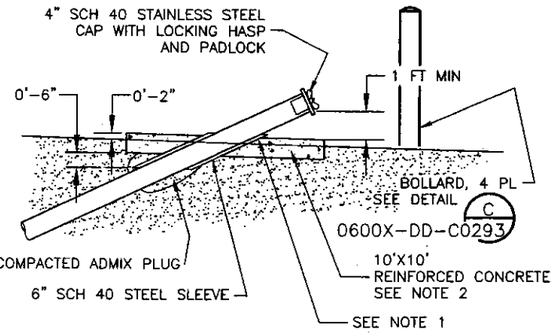
DRAWING NO.	REV. NO.
0600X-DD-C0300	0



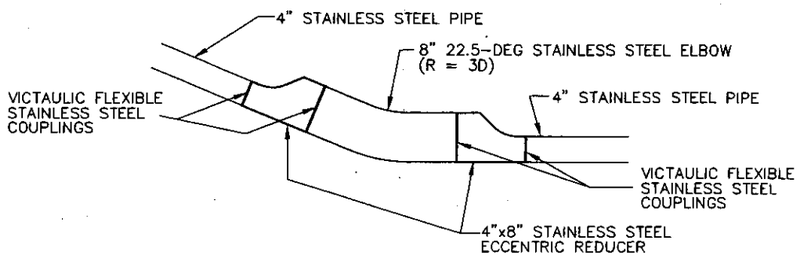
B W-E SECTION
0060X-DD-C0299 SCALE 1"=100'(H)
1"=20'(V)



C TYPICAL TRENCH SECTION
0060X-DD-C0299 NTS



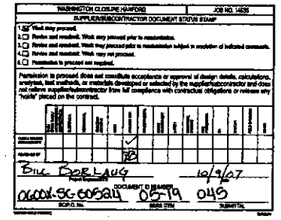
1 VADOSE ZONE MONITORING PAD
0060X-DD-C0299 NTS



2 VADOSE ZONE TRANSITION ELBOW DETAIL
0060X-DD-C0299 NTS

NOTES

1. FILL ANNULAR SPACE BETWEEN PIPE AND SLEEVE WITH FLEXIBLE SILICONE SEALANT.
2. 5-FOOT X 5-FOOT-6" THK REINFORCED CONCRETE SLAB ON GRADE W/ #5 REINFORCING BARS AT 12" OC EW. CENTER REINFORCING IN SLAB.
3. MINIMIZE NUMBER OF VICTAULIC COUPLINGS ON VADOSE ZONE MONITORING PIPE.



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OCT 08 2007
WCH - DOCUMENT CONTROL

DOCUMENT CONTROL mke 10/11/07

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JOHN CARL BRIZEE — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	CHK'R	ORIG/ENG'R	DATE CHK'D	SYS ENG'R	PROJ DATE
0	9/28/07	ISSUED FOR CONSTRUCTION	JBJ	CTB	[illegible]	9/28/07	N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
VANDOSE ZONE MONITORING SYSTEM DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0300.DWG

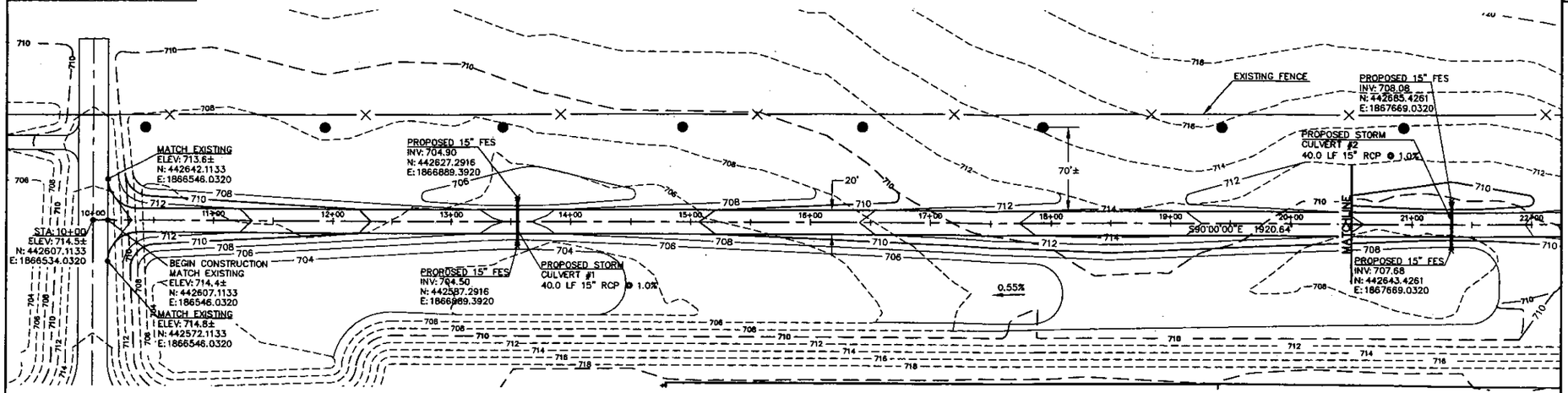
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0300	0

RECORD INFORMATION

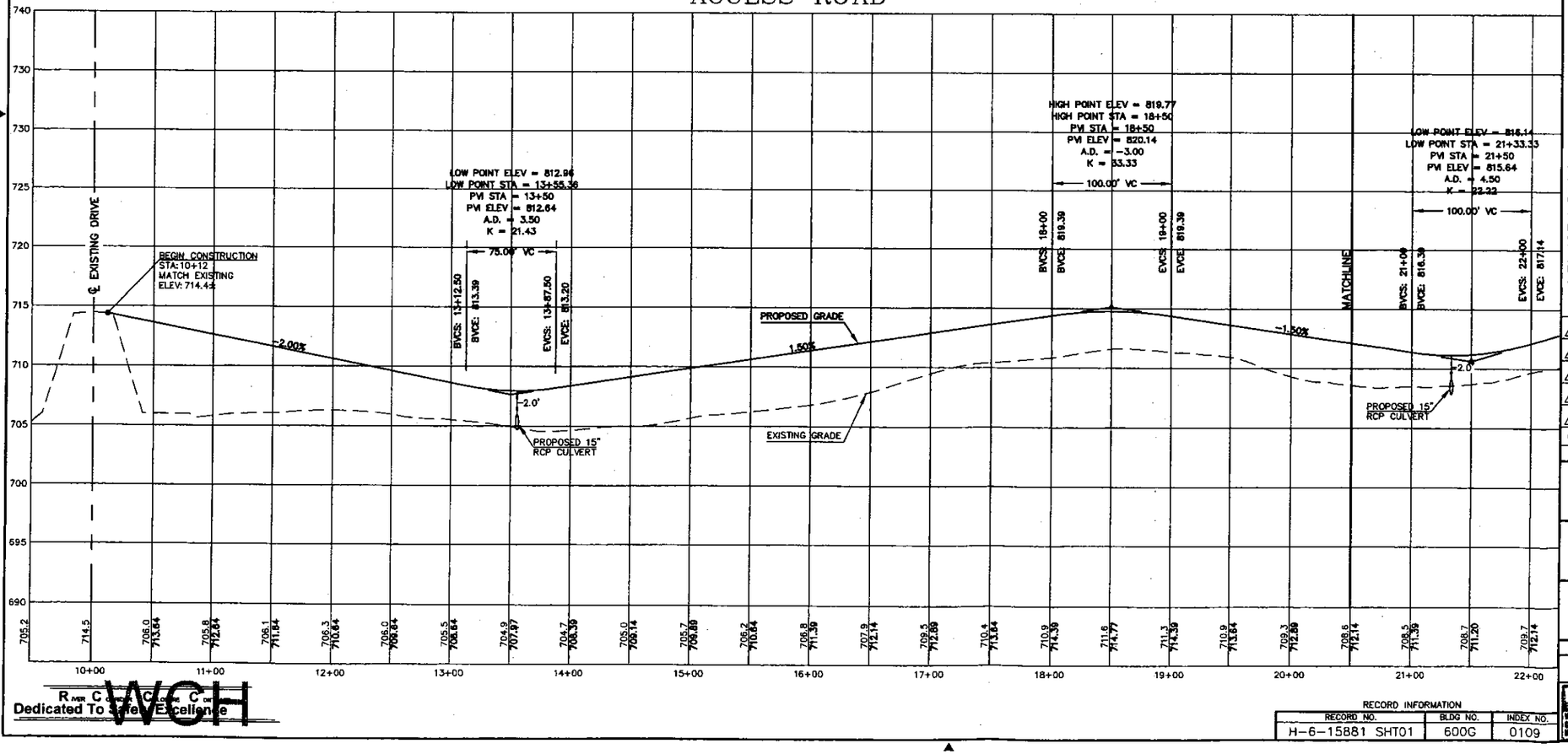
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15880 SHT01	600G	0110

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-C0301	0



ACCESS ROAD



Dedicated To Safety Excellence

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15881 SHT01	600G	0109

NOTES

EARTHWORK SUMMARY
CUT: 5,430 CU.YDS.
FILL: 8,180 CU. YDS.
NET: 2,750 CU. YDS. FILL

0' 25' 50' 100'

DOCUMENT CONTROL mlc 10/11/07

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1 Work may proceed.
2 Revise and resubmit. Work may proceed prior to resubmittal.
3 Revise and resubmit. Work may proceed prior to resubmittal subject to resolution of indicated comments.
4 Revise and resubmit. Work may not proceed.
5 Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier's/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

Bill Bowling 10/9/07
0600X-SC-60524 05-19 046
SCP.D. No. SPEC ITEM SUBMITTAL

500X524RAD

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OCT 08 2007
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JOHN CARL FRIESE — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DES/ ENG'R	ENG'R CHK	SUB ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	CG	CSB	ENG	N/A	SRB	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

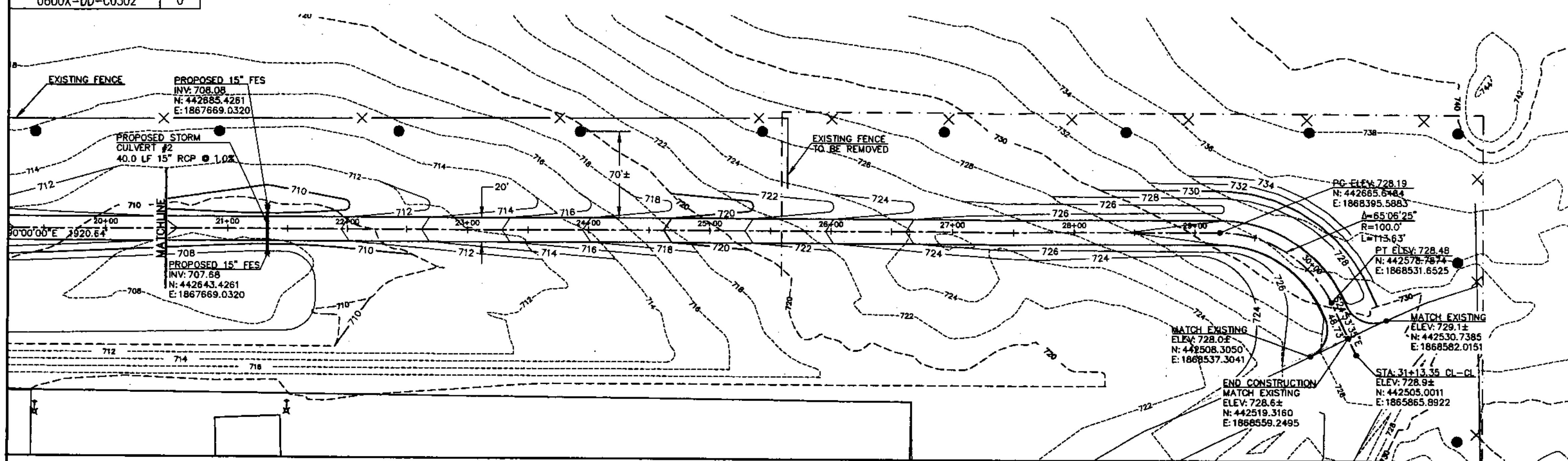
WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
ACCESS ROAD PLAN AND PROFILE

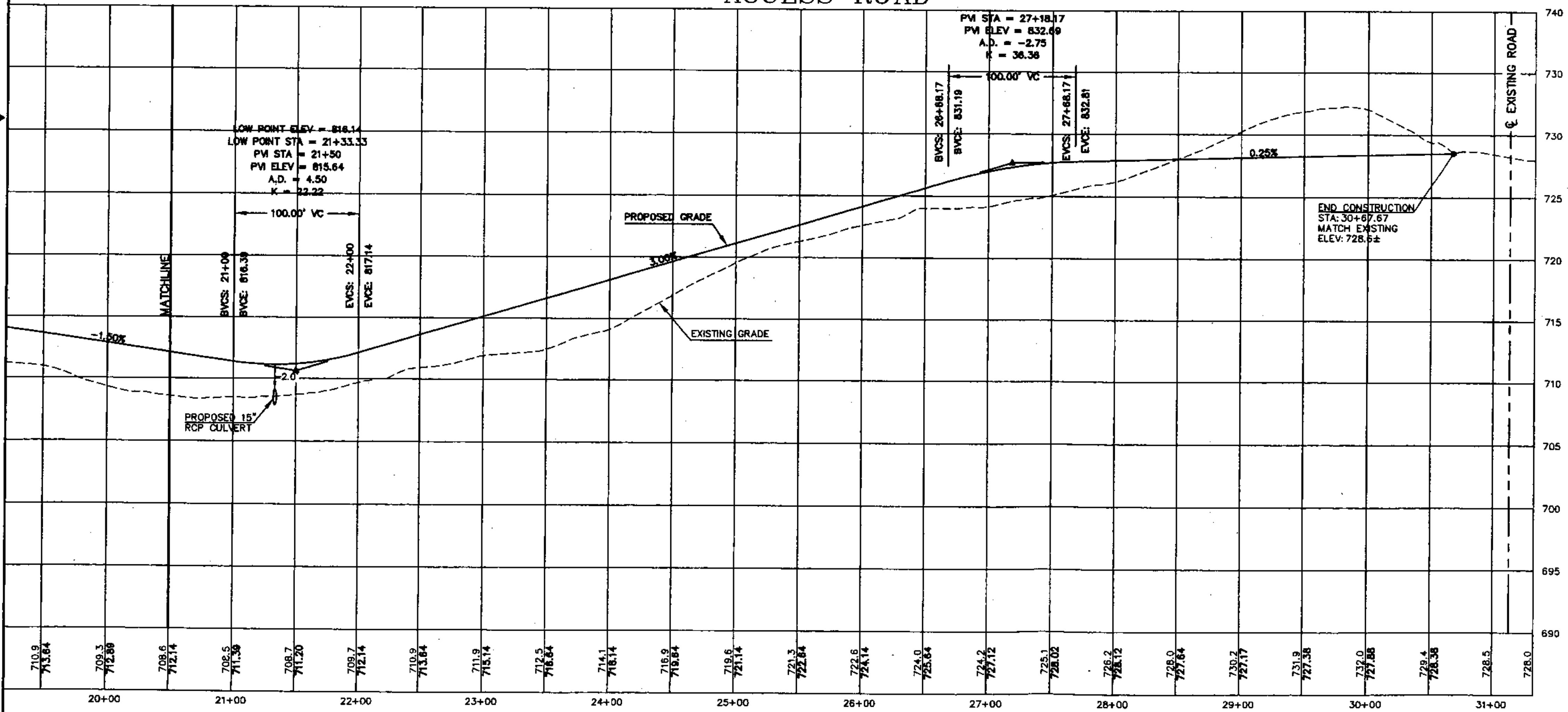
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0301.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0301	0

DRAWING NO.	REV. NO.
0600X-DD-C0302	0



ACCESS ROAD



NOTES

EARTHWORK SUMMARY

CUT: 5,430 CU.YDS.
FILL: 8,180 CU. YDS.
NET: 2,750 CU. YDS. FILL

WASHINGTON CLOSURE HANFORD
0600X-SC-G0524 05-19 047
500X524 A00

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OCT 08 2007
WCH - DOCUMENT CONTROL

DOCUMENT CONTROL MLC 10/11/07

0' 25' 50' 100'

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JOHN CARL BREST
STATE OF WASHINGTON
42158
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	RS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	CP	CJB	EN		N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7-10 ACCESS ROAD PLAN AND PROFILE

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0302.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0302	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15882 SHT01	600G	0109

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-C0304	0

PIPE ARCH DIMENSION (INCHES)		THICKNESS (INCHES)			DIMENSIONS (INCHES)						SKIRT	END SECTION SLOPE (H:V)
					A	B	H	L	W	T		
					TOL. ±1"	MAX.	TOL. ±1"	TOL. ±1 1/2"	TOL. ±2"	TOL. ±2"		
SPAN	RISE	STEEL		ALUM.								
17	13	0.064		0.060	7	9	6	19	30	40	1 PC.	2 1/2 : 1
21	15	0.064		0.060	7	10	6	23	36	46	1 PC.	2 1/2 : 1
24	18	0.064		0.060	8	12	6	28	42	52	1 PC.	2 1/2 : 1
28	20	0.064		0.075	9	14	6	32	48	58	1 PC.	2 1/2 : 1
35	24	0.079		0.075	10	16	6	39	60	70	1 PC.	2 1/2 : 1
42	29	0.079		0.105	12	18	6	46	75	85	2 PC.	2 1/2 : 1
49	33	0.109		0.105	13	21	9	53	85	103	2 PC.	2 1/2 : 1
57	38	0.109	0.138	0.105	18	26	12	63	90	114	3 PC.	2 1/2 : 1
64	43	0.109	0.138	0.105	18	30	12	70	102	130	3 PC.	2 1/2 : 1
71	47	0.109	0.138	0.135	18	33	12	77	114	146	3 PC.	2 1/2 : 1
77	52	0.109	0.138	------	18	36	12	77	126	152	3 PC.	1 3/4 : 1
83	57	0.109	0.138	------	18	39	12	77	138	156	3 PC.	1 1/2 : 1

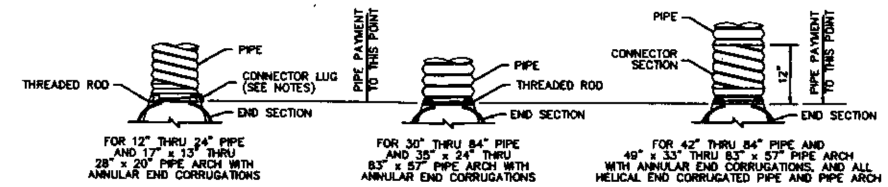
PIPE DIAM. (INCHES)	THICKNESS (INCHES)			DIMENSIONS (INCHES)						SKIRT	END SECTION SLOPE (H:V)
				A	B	H	L	W	T		
				TOL. ±1"	MAX.	TOL. ±1"	TOL. ±1 1/2"	TOL. ±2"	TOL. ±2"		
	STEEL		ALUM.								
12	0.064		0.060	6	6	6	21	24	34	1 PC.	2 1/2 : 1
15	0.064		0.060	7	8	6	26	30	40	1 PC.	2 1/2 : 1
18	0.064		0.060	8	10	6	31	36	46	1 PC.	2 1/2 : 1
21	0.064		0.060	9	12	6	36	42	52	1 PC.	2 1/2 : 1
24	0.064		0.075	10	13	6	41	48	58	1 PC.	2 1/2 : 1
30	0.079		0.075	12	16	8	51	60	70	2 PC.	2 1/2 : 1
36	0.079		0.105	14	19	9	60	72	94	2 PC.	2 1/2 : 1
42	0.109		0.105	16	22	11	69	84	106	2 PC.	2 1/2 : 1
48	0.109		0.105	18	27	12	78	90	112	2 PC.	2 1/2 : 1
54	0.109		------	18	30	12	84	102	122	2 PC.	2 1/2 : 1
60	0.109	0.138	------	18	33	12	87	114	134	3 PC.	1 3/4 : 1
66	0.109	0.138	------	18	36	12	87	120	142	3 PC.	1 1/2 : 1
72	0.109	0.138	------	18	39	12	87	126	146	3 PC.	1 1/3 : 1
78	0.109	0.138	------	18	42	12	87	132	152	3 PC.	1 1/4 : 1
84	0.109	0.138	------	18	45	12	87	138	156	3 PC.	1 1/6 : 1

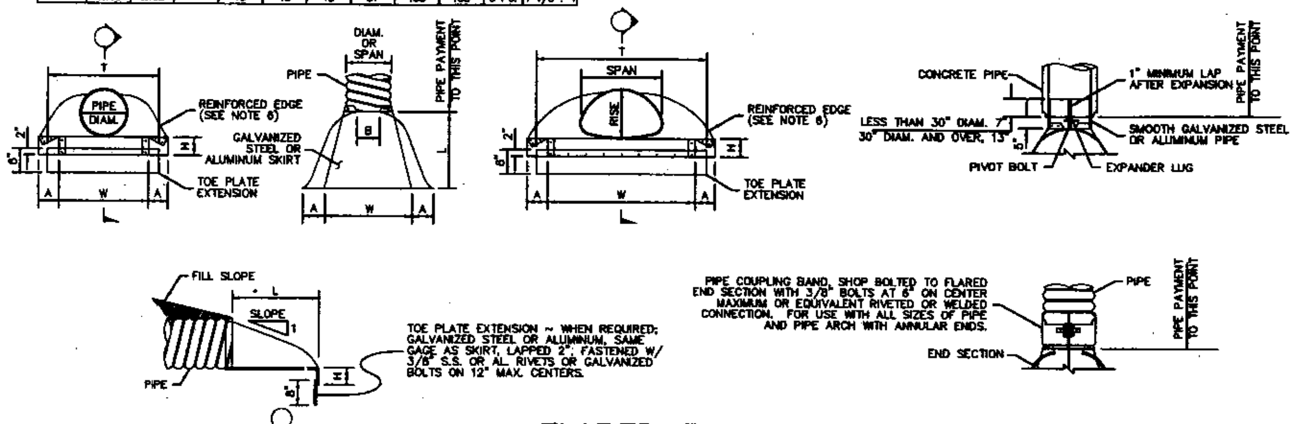
1. THE DIAMETER OF THE END SECTION OF DESIGN B SHALL MATCH THE INSIDE DIAMETER OF THE CONCRETE PIPE.
2. SKIRT SECTIONS SHALL BE MADE IN ONE PIECE FOR ROUND PIPE WITH A DIAMETER OF 12" TO 24" INCLUSIVE AND FOR PIPE ARCHES WITH A RISE OF 13" TO 20" INCLUSIVE. SKIRT SECTIONS FOR LARGER SIZES OF PIPES MAY BE MULTIPLE PIECES IN CONFORMANCE WITH THE TABULATED VALUES SHOWN.
3. DESIGN A END SECTIONS FOR 42" THRU 84" DIAMETER AND 49" X 33" THRU 83" X 57" ARCH WITH ANNULAR CORRUGATIONS AND ALL HELICALLY CORRUGATED PIPE ARCH INCLUDE ONE FOOT OF PIPE LENGTH AS A CONNECTOR SECTION. THE CONNECTOR SECTION SHALL BE ATTACHED TO THE END SECTION BY WELDS, RIVETS OR BOLTS AND SHALL BE THE SAME THICKNESS AS THE END SECTION.
4. DESIGN C MAY BE USED IN LIEU OF DESIGN A FOR ALL METAL PIPE SIZES EXCEPT AS NOTED. COUPLING BANDS MAY BE ANY ACCEPTABLE TYPE FOR THE PIPE SPECIFIED.
5. MULTIPLE PANEL SKIRTS SHALL HAVE 2" LAP SEAMS TIGHTLY JOINED BY 3/8" STAINLESS STEEL RIVETS OR GALVANIZED BOLTS ON 6" MAX. CENTERS.
6. THE REINFORCED EDGES OF THE FOLLOWING SIZE END SECTIONS SHALL BE SUPPLEMENTED WITH GALVANIZED STEEL STIFFENER ANGLES:

   60" THRU 72" DIAMETER PIPE .... 2" X 2" X 1/4" ANGLE

   78" AND 84" DIAMETER PIPE, AND 77" X 52" & 83" X 57" PIPE ARCH .... 2 1/2" X 2 1/2" X 1/4" ANGLE

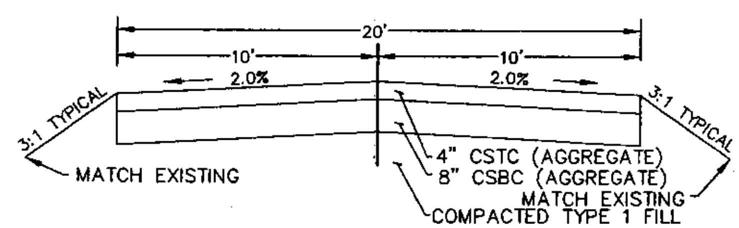
   THE ABOVE GALVANIZED ANGLES SHALL BE ATTACHED BY 3/8" GALVANIZED NUTS AND BOLTS.
7. GALVANIZED STEEL ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 72" THRU 84" DIAM. PIPE AND 77" X 52" & 83" X 57" PIPE ARCH END SECTIONS.
8. AS AN ALTERNATIVE TO THE CONNECTOR LUG AND THREADED ROD USED ON 12" THRU 24" CULVERT PIPE, THE ATTACHMENT MAY BE MADE WITH A 1" WIDE STRAP, 16 GAGE GALVANIZED STEEL FASTENED WITH A 1/2" DIAM., 6" LONG GALVANIZED BOLT AND ONE SQUAREHEAD NUT.





PER WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD PLAN B-70.60-00

FLARED END SECTION
1 TYPICAL DETAIL
NTS



ACCESS ROAD
3 TYPICAL SECTION
NTS

NOTES

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

0600X-SC-G0589 0579 048

S00X524A00

DOCUMENT CONTROL mac 10/11/07

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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JOHN CARL BRIENT — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	CJ	CSB			N/A	BR

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RETORATION DISPOSAL FACILITY
CELLS 7. - 10
ACCESS ROAD DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0304.DWG

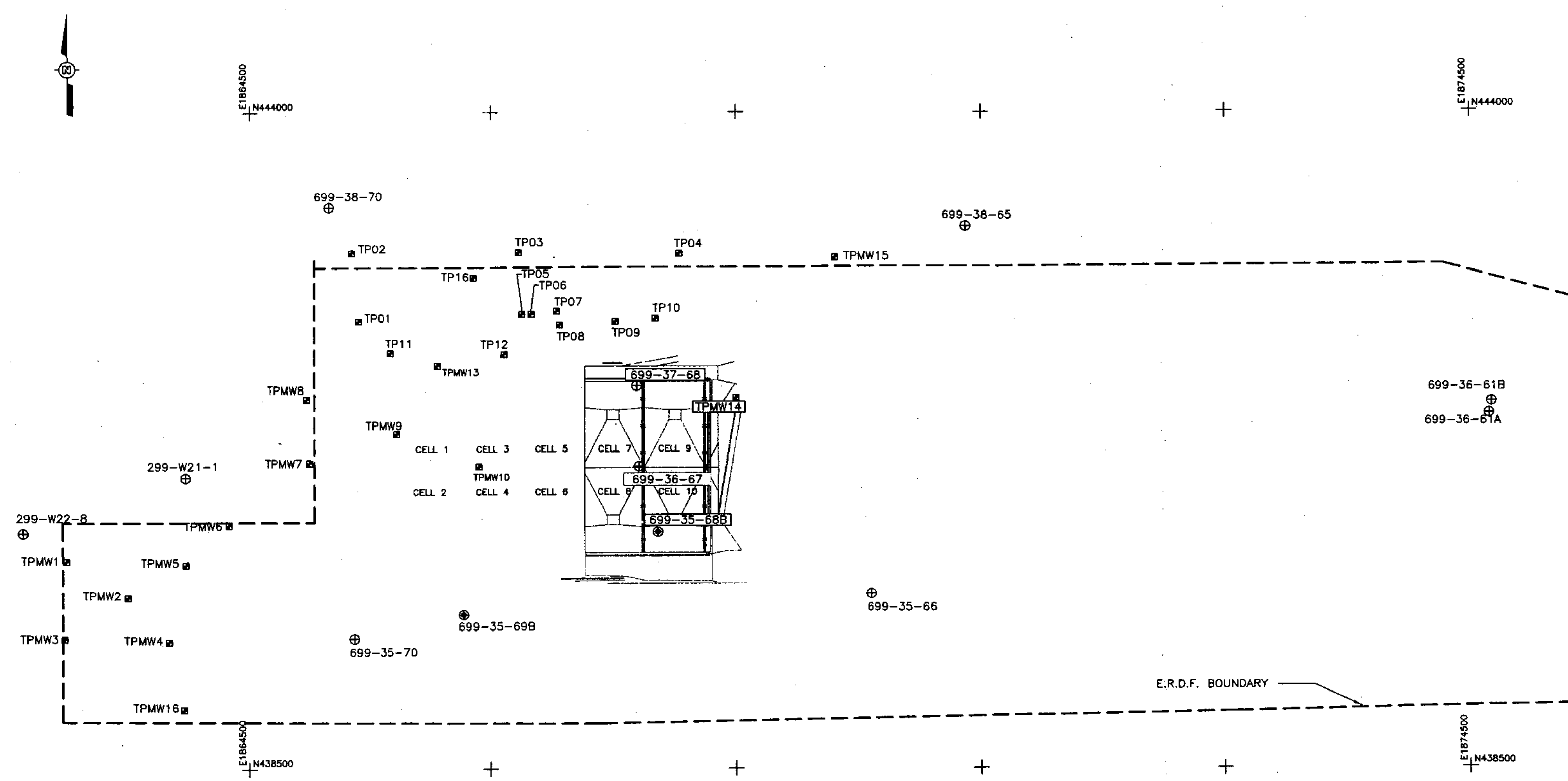
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0304	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15884 SHT01	600G	0109

River Corridor Closure Contract — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0308	0



NOTES

LEGEND:

- ⊕ BORING LOCATION
- ▣ TEST PIT LOCATION
- ⊕ EXISTING WELL LOCATION

WASHINGTON CLOSURE HANFORD SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

0600X-SC-G0529 C5-19 049

S00X524A00

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JOHN CARL PRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DWG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJU	CJB		BJH	N/A	JCP

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7-10 TEST PITS AND BORING LOCATIONS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0308.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0308	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15888 SHT01	600G	0110

WCH River Corridor Closure Contract
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0309	0

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 299-W22-8

SHEET 1 OF 2

BORING LOCATION NORTH 35409.00 EAST -72710.00

GROUND ELEVATION: 682.00 FEET

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: ROW/RICHARDS

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SANDY SILT								
	SILTY SAND								

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 299-W21-1

SHEET 1 OF 2

BORING LOCATION NORTH 35868.00 EAST -71382.00

GROUND ELEVATION: 697.90 FEET

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: HATCH/RICHARDS

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SILTY SAND								
	GRAVELLY SAND								
	SAND								
	SILTY SAND								
	GRAVELLY SILTY SAND								

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 699-38-70

SHEET 1 OF 2

BORING LOCATION NORTH 38142.00 EAST -70228.00

GROUND ELEVATION: 708.87 FEET

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: SWAIN

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SAND (EOLIAN SAND?)								
	GRAVEL								
	GRAVELLY SILTY SAND								
	SILTY SAND								
	SANDY SILT								
	SILTY SAND: SAND-SILT								
	SANDY SILT								
	GRAVELLY SILTY SAND								
	SILTY SAND								
	GRAVELLY SAND								
	SAND								

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 299-W22-8

SHEET 2 OF 2

BORING LOCATION NORTH 35409.00 EAST -72710.00

GROUND ELEVATION: 682.00

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: ROW/RICHARDS

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SILTY SAND								
	BOREHOLE CONTINUES TO 286 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG.								
	SANDY SILT								

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 299-W21-1

SHEET 2 OF 2

BORING LOCATION NORTH 35868.00 EAST -71382.00

GROUND ELEVATION: 697.90

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: HATCH/RICHARDS

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SILTY SAND								
	SILTY SAND								
	BOREHOLE CONTINUES TO 352 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG								

BOREHOLE LOG

PROJECT: ERDF

BORING NO. 699-38-70

SHEET 2 OF 2

BORING LOCATION NORTH 34142.00 EAST -70226.00

GROUND ELEVATION: 708.87

BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: SWAIN

LOGGED:
CHECKED:
DATE:

SOIL PROFILE			SAMPLES					PENETRATION RESISTANCE BLOWS/FT. ■ 0 10 20 30 40 50 / WATER CONTENT, PERCENT	PIEZOMETER GRAPHIC / WATER LEVEL
DEPTH (FT)	DESCRIPTION	GRAPHIC LOG	NUMBER	TYPE	BLOWS	N	RECOVERY		
	SILTY SAND								
	BOREHOLE CONTINUES TO 413 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG								

NOTES

1. BORINGS 699-35-69B AND 669-35-68B TRANSCRIBED FROM BORING LOGS SUPPLIED BY WHC GEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS TRANSCRIBED FROM WHC-SD-AP-128 REV.1. "SITE CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY".
2. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☒ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
4. ☐ Revise and resubmit. Work may not proceed.
5. ☐ Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

Bill Borghuis (Project Engineer) 10/9/07
0600X-SC-G0524 05-19 050 (SC/P.O. No. / SSRS ITEM / SUBMITTAL)

S00X524A00

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JOHN CARL BREST — STATE OF WASHINGTON — 42158 REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'R	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	TJW	CSB	Sm	JH	N/A	BB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SOIL BORING LOGS-1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0309.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0309	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15889 SHT01	600G	0501

DRAWING NO. 0600X-DD-C0310 | REV. NO. 0

BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-70 | SHEET 1 OF 2

BORING LOCATION NORTH 34523.00 EAST -69988.00 | GROUND ELEVATION: 692.10 FEET | BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: GOEBLE/ROW
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
0	TOPSOIL – (EOLIAN SAND?)
~10	SAND
~25	GRAVELLY SAND
~35	SILTY SAND
~55	SAND
~60	SILTY SAND

BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-66 | SHEET 1 OF 2

BORING LOCATION NORTH 34860.00 EAST -65758.00 | GROUND ELEVATION: 723.47 FEET | BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: HATCH
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
0	SAND – (EOLIAN SAND?)
~10	GRAVELLY SAND
~20	GRAVEL
~30	SANDY GRAVEL
~35	SILTY SAND

BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-68B | SHEET 1 OF 1

BORING LOCATION NORTH 35399 EAST -67498 | GROUND ELEVATION: 713.9 FEET | BORING DATE: 4/26/94

DRILLING METHOD AND EQUIPMENT: HOLLOW STEM AUGER, B-57 DRILL
DRILLING CONTRACTOR:
DRILLER: D. ROSSMAN
LOGGED: E.A. JOHNSON
CHECKED: EDWARD C. RAFUSE
DATE: 4/27/94

Depth (ft)	Description	Type	Blows (140 Pound Hammer 30 In. Drop)	Recovery	Blows/ft
0–9	Yellowish Brown, Slightly Moist Fine to Medium SAND with Some Coarse Sand				
9–20	Compact, Dark Olive Gray, Moist, Medium to Coarse SAND, Trace Silt	SS SS	53/0" 50/12"	0% 200%	53
20–30	Dense to Very Dense, Light Yellowish Brown, Fine to Medium SAND	SS SS	40/12" 55/12"	100%	55
30–40	Very Dense, Light Brownish Gray, Dry, Medium to Coarse SAND	SS SS	57/12" 87/12"	50%	57 80
40–47	Very Dense, Pale Brown, Dry, Fine to Medium SAND, Trace Silt	SS	91/10"	100%	100
47–52.4	Very Dense, Pale Yellow, Medium to Coarse SAND	SS SS SS SS	26/6" 30/6" 55/6" 70/6"	50%	56 125
52.4	BOTTOM OF BOREHOLE AT 52.4 FEET				

NOTES

1. BORINGS 699-35-69B AND 669-35-68B TRANSCRIBED FROM BORING LOGS SUPPLIED BY WHC GEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS TRANSCRIBED FROM WHC-SD-AP-128 REV.1. "SITE CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY".
2. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

WASHINGTON CLOSURE HANFORD | JOB NO. 14655

SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

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3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
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5. ☐ Permission to proceed not required.

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Bill Borlaug 10/9/07

0600X-SC-G0524 | 05-19 | 051
SC/P.O. No. | SSRS ITEM | SUBMITTAL

S00X524A00

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BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-70 | SHEET 2 OF 2

BORING LOCATION NORTH 34523.00 EAST -69988.00 | GROUND ELEVATION: 692.10 | BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: GOEBLE/ROW
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
~80	SILTY SAND
~145	BOREHOLE CONTINUES TO 325 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG

BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-66 | SHEET 2 OF 2

BORING LOCATION NORTH 34860.00 EAST -65758.00 | GROUND ELEVATION: 723.47 | BORING DATE:

DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: HATCH
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
~75	SILTY SAND
~145	BOREHOLE CONTINUES TO 452 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG

BOREHOLE LOG

PROJECT: ERDF | BORING NO. 699-35-69B | SHEET 1 OF 1

BORING LOCATION NORTH 34717 WEST -69968 | GROUND ELEVATION: 701.45 FEET | BORING DATE: 4/22/94

DRILLING METHOD AND EQUIPMENT: HOLLOW STEM AUGER, B-57 DRILL
DRILLING CONTRACTOR:
DRILLER: D. ROSSMAN
LOGGED: MONTY MEHLHORN
CHECKED: EDWARD E. RAFUSE
DATE: 4/25/94

Depth (ft)	Description	Blows (140 Pound Hammer 30 In. Drop)	Recovery	Blows/ft
0–9	Yellowish Brown, Dry Fine to Medium SAND, with Some Coarse Sand			
9–19	Compact to Very Dense, (COLOR), Dry, Medium to Coarse SAND, Little Gravel	20/10" 20/2"	40%	120
19–58	Dense to Very Dense, (COLOR) Dry Fine to Medium SAND	37/12" 61/12"	50%	61
		51/12" 90/12"	75%	51 90
		40/12" 136/12" 35/12" 140/12"	0% 60%	136 140
~55	Pebble Layer	26/6" 31/6" 60/6" 50/6" 23/6" 38/6" 94/6" 146/6" 80/2" 34/6" 42/6" 76/6" 125/6"	0% 50% 0%	57 115 61 210 480 76 201
57.8	BOTTOM OF BOREHOLE AT 57.8 FEET			

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JOHN CARL BRIEST, STATE OF WASHINGTON, 42158, REGISTERED PROFESSIONAL ENGINEER, 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'K	ORIG/ ENG'R	ENG'R CHK'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SOIL BORING LOGS-2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0310.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0310	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15890 SHT01	600G	0501

River Corridor Closure Contract
Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0311	0

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-38-65 — SHEET 1 OF 2
BORING LOCATION NORTH 37965.00 EAST -64978.00 — GROUND ELEVATION: 751.03 FEET — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: M. DAWSON/C. BACH
LOGGED:
CHECKED:
DATE:

SOIL PROFILE: DEPTH (FT) | DESCRIPTION | GRAPHIC LOG — SAMPLES: NUMBER | TYPE | BLOWS | N | RECOVERY — PENETRATION RESISTANCE BLOWS/FT. 0 10 20 30 40 50 / WATER CONTENT, PERCENT — PIEZOMETER GRAPHIC / WATER LEVEL

Depth (ft)	Description
0–10	GRAVELLY SAND
10–25	SANDY SILT
25–34	NOT LOGGED
34–75	SANDY SILT

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-36-61A — SHEET 1 OF 2
BORING LOCATION NORTH 36365.00 EAST -60704.00 — GROUND ELEVATION: 746.52 FEET — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: ROW
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
0–5	SAND – (EOLIAN SAND?)
5–23	GRAVELLY SAND
23–30	SILTY SANDY GRAVEL
30–75	SILTY SAND

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-36-61B — SHEET 1 OF 2
BORING LOCATION NORTH 36463.00 EAST -60685.00 — GROUND ELEVATION: 746.46 FEET — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: C.BACH
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
0–10	SAND – (EOLIAN SAND?)
10–35	GRAVEL
35–40	SILTY GRAVEL
40–75	SAND

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-38-65 — SHEET 2 OF 2
BORING LOCATION NORTH 37965.00 EAST -64978.00 — GROUND ELEVATION: 751.03 — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: M. DAWSON/C. BACH
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
75–84	SANDY SILT
84–115	SILTY SAND
115–135	SANDY SILT
135–150	SILTY SAND
145	BOREHOLE CONTINUES TO 536 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-36-61A — SHEET 2 OF 2
BORING LOCATION NORTH 36365.00 EAST -60704.00 — GROUND ELEVATION: 746.52 — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: ROW
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
75–150	SILTY SAND
145	BOREHOLE CONTINUES TO 390 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG

BOREHOLE LOG

PROJECT: ERDF — BORING NO. 699-36-61B — SHEET 2 OF 2
BORING LOCATION NORTH 36463.00 EAST -60685.00 — GROUND ELEVATION: 746.46 — BORING DATE:
DRILLING METHOD AND EQUIPMENT: CABLE TOOL
DRILLING CONTRACTOR: NOT DOCUMENTED
DRILLER: C. BACH
LOGGED:
CHECKED:
DATE:

Depth (ft)	Description
75–95	SAND
95–105	SILTY SAND
105–125	NOT LOGGED
125–150	SAND
145	BOREHOLE CONTINUES TO 568 FEET. PLEASE REFER TO WHC-SD-EN-AP-128, Rev. 1 FOR COMPLETE LOG

NOTES

1. BORINGS 699-35-69B AND 669-35-68B TRANSCRIBED FROM BORING LOGS SUPPLIED BY WHC GEOTECHNICAL DEPARTMENT. REMAINDER OF BORING LOGS TRANSCRIBED FROM WHC-SD-AP-128 REV.1. "SITE CHARACTERIZATION PLAN FOR THE ENVIRONMENTAL RESTORATION DISPOSAL FACILITY".
2. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP
1. [x] Work may proceed.
2. [ ] Revise and resubmit. Work may proceed prior to resubmission.
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Bill Borlaug — Project Engineer/STR — 10/9/07
DOCUMENT ID NUMBER: 0600X-SC-G0524 (SC/P.O. No.) 05-19 (SSRS ITEM) 052 (SUBMITTAL)
500X524A00

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DOCUMENT CONTROL mlc 10/11/07

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JOHN CARL BRIEST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

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0	9/28/07	ISSUED FOR CONSTRUCTION	JW	CJB	[signature]	JH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SOIL BORING LOGS-3

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0311.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0311	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15891 SHT01	600G	0501

DRAWING NO.	REV. NO.
0600X-DD-C0312	0

FIELD TEST PIT LOG

PROJECT: ERDF | TEST PIT NO. TPMW1 | SHEET 1 OF 1
PIT LOCATION – | GROUND ELEVATION: – | TEST PIT DATE: 5/31/94

TRENCHING METHOD AND EQUIPMENT: CASE 590 TURBO
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: RICHARD LUARK
DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–3		S1	3.3	COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
3–4				COMPACT, OLIVE BLACK, COARSE TO FINE SAND (SP), (HANFORD FORMATION)
4–12.5		S2	2.9	NOTE: 1 INCH CALICHE LAYER AT 4 FEET COMPACT, OLIVE BLACK, LAMINATED COARSE TO FINE SAND, TRACE SILT, LITTLE GRAVEL (SP), (HANFORD FORMATION)
12.5				TOTAL DEPTH = 12.5 FEET

FIELD TEST PIT LOG

PROJECT: ERDF | TEST PIT NO. TPMW2 | SHEET 1 OF 1
PIT LOCATION – | GROUND ELEVATION: – | TEST PIT DATE: 5/31/94

TRENCHING METHOD AND EQUIPMENT: CASE 590 TURBO
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: RICHARD LUARK
DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–6		S1	3.1	COMPACT, MODERATE YELLOWISH BROWN SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
6–8.7		S2	2.4	COMPACT, OLIVE GRAY, COARSE TO FINE SAND, TRACE FINE GRAVEL (SP), (HANFORD FORMATION)
8.7				TOTAL DEPTH = 8.7 FEET

FIELD TEST PIT LOG

PROJECT: ERDF | TEST PIT NO. TPMW3 | SHEET 1 OF 1
PIT LOCATION – | GROUND ELEVATION: – | TEST PIT DATE: 5/31/94

TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: RICHARD LUARK
DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–2		S1	3.7	COMPACT, MODERATE YELLOWISH BROWN, SILTY, FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
2–5				COMPACT, OLIVE GRAY, COARSE TO FINE SAND, LITTLE GRAVEL (SP), (HANFORD FORMATION)
5–13.7		S2	2.7	CALCIUM CEMENTED SAND LAYER ~1 INCH COMPACT TO DENSE, OLIVE GRAY, LAMINATED COARSE TO FINE SAND, LITTLE GRAVEL (SP), (HANFORD FORMATION)
13.7				TOTAL DEPTH = 13.7 FEET

FIELD TEST PIT LOG

PROJECT: ERDF | TEST PIT NO. TPMW4 | SHEET 1 OF 1
PIT LOCATION – | GROUND ELEVATION: – | TEST PIT DATE: 5/31/94

TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: RICHARD LUARK
DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–2.5				COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
2.5–8				CALCIUM CEMENTED COARSE SAND LAYER ~2" COMPACT, OLIVE GRAY, COARSE TO FINE SAND, LITTLE GRAVEL (SP), (HANFORD FORMATION)
8				TOTAL DEPTH = 8 FEET

NOTES

1. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
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Bill Borlaug — Project Engineer/STR — Date 10/9/07
DOCUMENT ID NUMBER: 0600X-SC-G0524 (SC/P.O. No.) 05-19 (SSRS ITEM) 053 (SUBMITTAL)
S00X524A00

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JOHN CARL BRIESE — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07
EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CSB	Sm	BJH	N/A	JCB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7–10
SOIL TEST PIT LOGS–1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0312.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0312	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15892 SHT01	600G	0501

DRAWING NO.	REV. NO.
0600X-DD-C0313	0

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW5
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 5/31/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–3		S1	2.9	COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
4–5		S2	3.5	COMPACT TO DENSE, PALE YELLOWISH BROWN, CALCIUM CEMENTED COARSE SAND, LITTLE TO TRACE FINE GRAVEL (SP), (HANFORD FORMATION)
6–9				COMPACT, OLIVE BLACK, COARSE TO FINE SAND, TRACE GRAVEL (SP), (HANFORD FORMATION)
9				TOTAL DEPTH = 9 FEET

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW6
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 6/1/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–2		S1	4.5	COMPACT, PALE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM), (EOLIAN DEPOSIT)
3–8		S2	2.3	COMPACT, OLIVE BLACK, COARSE TO FINE SAND TO SAND AND GRAVEL, LITTLE SILT (SW–GW), (HANFORD FORMATION)
9				TOTAL DEPTH = 9 FEET

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW7
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 6/1/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–6				COMPACT, PALE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SM)
7				COMPACT, OLIVE BLACK, COARSE TO FINE SAND AND GRAVEL (SP), (HANFORD FORMATION)
8–12		S1	2.8	COMPACT TO DENSE, MODERATE YELLOWISH BROWN, SILTY COARSE TO FINE SAND, LITTLE TO SOME GRAVEL (SM), (HANFORD FORMATION)
13				TOTAL DEPTH = 13 FEET

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW8
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 6/1/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–4		S1	4.5	COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND (SP–SM), (EOLIAN DEPOSIT)
5–6				COMPACT, OLIVE BLACK, COARSE SANDY GRAVEL (GP), (HANFORD FORMATION)
7–12		S2	3.5	COMPACT TO DENSE, MODERATE YELLOWISH BROWN, SILTY COARSE TO FINE SAND, LITTLE TO SOME GRAVEL (SM), (HANFORD FORMATION)
13				TOTAL DEPTH = 13 FEET

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW9
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 6/1/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–5				COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO MEDIUM SAND (SM), (EOLIAN DEPOSIT)
6–7		S1	2.8	COMPACT, OLIVE BLACK, COARSE TO FINE SAND, SOME GRAVEL (SP), (HANFORD FORMATION)
7–8				COMPACT, MODERATE YELLOWISH BROWN, SILTY, COARSE TO FINE SAND, SOME GRAVEL (SM), (HANFORD FORMATION)
8				TOTAL DEPTH = 8 FEET

FIELD TEST PIT LOG

PROJECT: ERDF — TEST PIT NO. TPWW10
PIT LOCATION – — GROUND ELEVATION: – — SHEET 1 OF 1 — TEST PIT DATE: 6/1/94
TRENCHING METHOD AND EQUIPMENT: CASE 590 EXTENDAHOE — LOGGED: MARK ANDERSON
CONTRACTOR: E.P. JOHNSON CONSTRUCTION — CHECKED: RICHARD LUARK
OPERATOR: D. CADIEU — DATE: 5/31/94

DEPTH (FT)	GRAPHIC LOG	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
1–4		S1	6.7	COMPACT, MODERATE YELLOWISH BROWN, SILTY FINE TO COARSE SAND, TRACE GRAVEL (SM), (EOLIAN DEPOSIT)
5–8		S2	2.0	COMPACT, OLIVE BLACK, COARSE TO FINE SAND AND GRAVEL WITH COBBLES TO COARSE TO FINE SAND, SOME GRAVEL WITH COBBLES (SP TO GP), (HANFORD FORMATION)
9				TOTAL DEPTH = 9 FEET

NOTES

1. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

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Bill Barclay — 10/9/07
0600X-SC-G0524 — 0519 — 054
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JOHN CARL BEARST — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	ORIG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	JJU	CTB	Sm	BJH	N/A	SJR

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. — RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC — DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7–10
SOIL TEST PIT LOGS –2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0313.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0313	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15893 SHT01	600G	0501

RIVER CORRIDOR CLOSURE CONTRACT — WCH — Dedicated To Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-C0315	0

FIELD TEST PIT LOG — TEST PIT NO. TP03

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 12/2/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–6.5	S1, S2		LOOSE TO COMPACT, PALE YELLOWISH BROWN, COARSE TO FINE SAND WITH SOME SILT (SW-SM), (EOLIAN DEPOSIT)
6.5–10	S3		COMPACT TO DENSE, BROWNISH BLACK, COARSE TO FINE GRAVEL WITH SOME COARSE TO FINE SAND, DRY, CACO3 CEMENTATION AT CONTACT (GW), (HANFORD FORMATION)
10			TOTAL DEPTH = 10 FEET

FIELD TEST PIT LOG — TEST PIT NO. TP04

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 12/1/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–3.8	S1		LOOSE, PALE YELLOWISH BROWN, COARSE TO FINE SAND WITH LITTLE SILT (SW-SM), (EOLIAN DEPOSIT)
3.8–8	S2		COMPACT TO DENSE, GRAY, COARSE TO FINE TO MEDIUM SAND, TRACE SILT (GW), (HANFORD FORMATION)
8			TOTAL DEPTH = 8 FEET

FIELD TEST PIT LOG — TEST PIT NO. TP05

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 11/31/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–8	S1		PALE YELLOWISH BROWN, COARSE TO FINE SAND LITTLE SILT (SW), (EOLIAN DEPOSIT)
8–12	S2		LIGHT OLIVE BROWN, MEDIUM TO FINE SAND, SOME SILT, TRACE COARSE TO FINE GRAVEL (SM)
12–12.5			COMPACT TO DENSE, BROWNISH BLACK, COARSE TO FINE GRAVEL WITH SAND (GW), (HANFORD FORMATION)
12.5			TOTAL DEPTH = 12.5 FEET

FIELD TEST PIT LOG — TEST PIT NO. TP06

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 11/30/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–7	S1		LOOSE, PALE YELLOWISH BROWN, COARSE TO FINE SAND, LITTLE SILT (SW-SM), (EOLIAN DEPOSIT)
7–9.5	S2		COMPACT, VERY DARK GRAY, COARSE TO MEDIUM SAND, SOME COBBLES, SOME COARSE TO FINE GRAVEL, TRACE SILT (SP)
9.5			TOTAL DEPTH = 9.5 FEET

FIELD TEST PIT LOG — TEST PIT NO. TP07

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 11/30/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–5.7	S1		LOOSE, LIGHT BROWNISH GRAY, FINE SAND SOME SILT (SM), (EOLIAN DEPOSIT)
			CALICHE LAYER~3 INCHES
6–9	S2		LOOSE TO COMPACT, BROWNISH BLACK, COARSE TO FINE GRAVEL, SOME COARSE TO FINE SAND, (HANFORD FORMATION)
9			TOTAL DEPTH = 9 FEET

FIELD TEST PIT LOG — TEST PIT NO. TP08

PROJECT: ERDF
PIT LOCATION –
GROUND ELEVATION: –
SHEET 1 OF 1
TEST PIT DATE: 11/30/94

TRENCHING METHOD AND EQUIPMENT: FORD 555D
CONTRACTOR: E.P. JOHNSON CONSTRUCTION
OPERATOR: D. CADIEU
LOGGED: MARK ANDERSON
CHECKED: SCOTT STONEMAN
DATE: 1/23/95

DEPTH (FT)	SAMPLES	MOISTURE CONTENT (%)	SOIL PROFILE DESCRIPTION
0–4.7	S1		LOOSE, PALE YELLOWISH BROWN, COARSE TO FINE SAND, LITTLE TO SOME SILT (SM), (EOLIAN DEPOSIT)
			CALICHE LAYER~0.4 FT
5–6			DENSE, COARSE GRAVEL, LTTLE COARSE TO FINE SAND (HANFORD FORMATION)
6–15.3	S2		COMPACT TO DENSE, PALE OLIVE, LAMINATED, MEDIUM TO FINE SAND, LITTLE SILT (SP-SM). (HANFORD FORMATION)
15.3			TOTAL DEPTH = 15.3 FEET

River Corridor Closure Contract
Dedicated To Safety Excellence

NOTES

1. FOR LOCATIONS OF SOIL BORINGS, SOIL TEST PITS, AND EXISTING WELLS, SEE DRAWING NO. 0600X-DD-C0308.

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
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Bill Borlaug — Project Engineer/STR — 10/9/07 (Date)
DOCUMENT ID NUMBER: 0600X-SC-G0524 (SC/P.O. No.) 05-19 (SSRS ITEM) 055 (SUBMITTAL)

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JOHN CARL BRI… — STATE OF WASHINGTON — 42158 — REGISTERED PROFESSIONAL ENGINEER — 9/28/07

EXPIRES: 5/28/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CH'K	DRNG/ ENG'R	ENG'R CH'K	SYS ENG'R	PROJ MGR
0	9/28/07	ISSUED FOR CONSTRUCTION	JJW	CJB	[illegible]	DJH	N/A	BB

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
SOIL TEST PIT LOGS-3

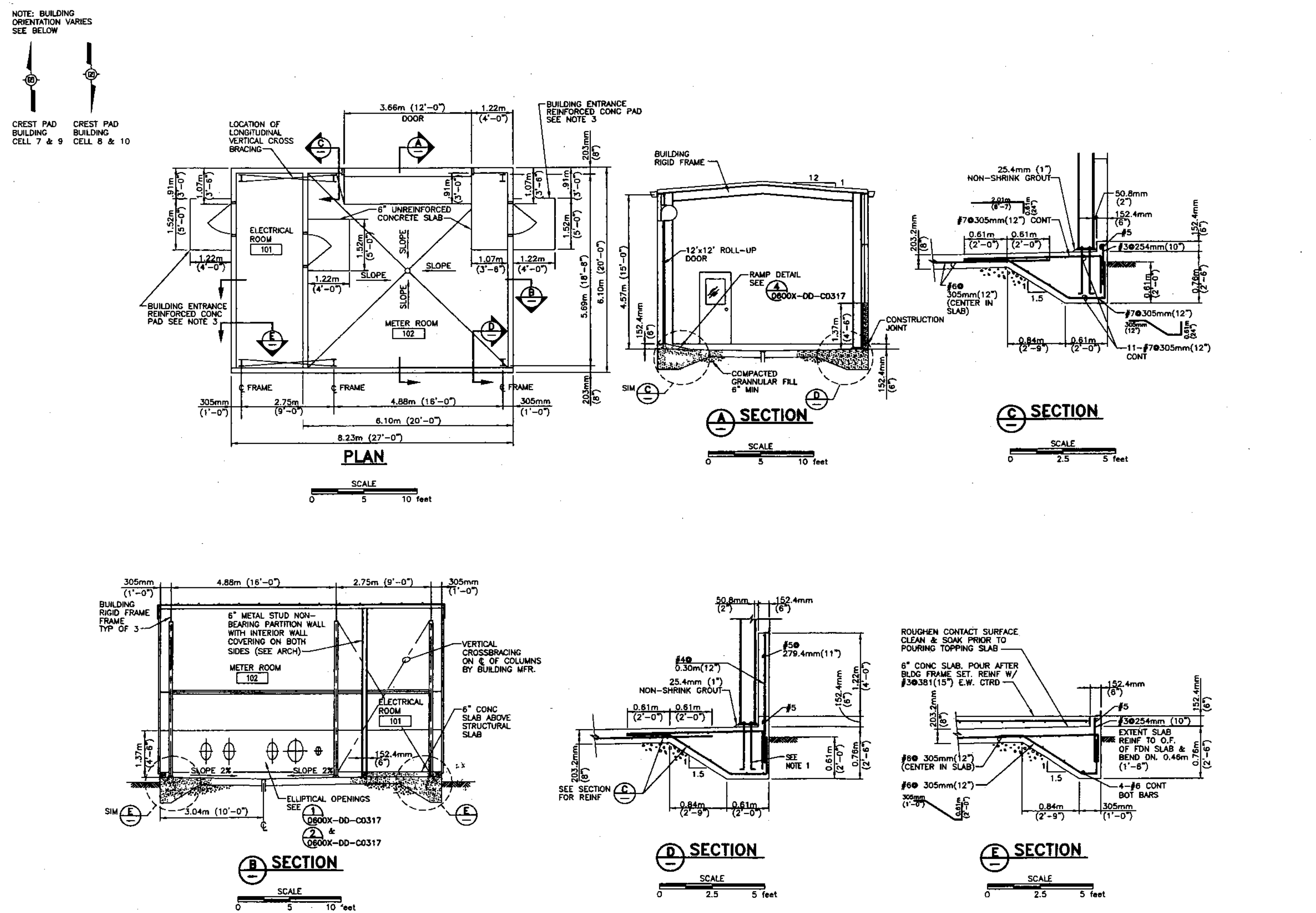
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0315.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0315	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15895 SHT01	600G	0501

DRAWING NO.	REV. NO.
0600X-DD-C0316	0



NOTES

1. BUILDING FRAME ANCHOR BOLTS SHALL BE A MINIMUM OF (4)-3/4" DIA. COORDINATE WITH BUILDING SUPPLIER FOR BOLT NUMBER AND LOCATION.
2. BUILDING TYPICAL (4 PLANS) FOR CELLS 7/8 & 9/10.
3. BOTH OUTSIDE BUILDING ENTRANCE PADS SHALL BE 152.4mm (6") THICKNESS WITH #4@12" EW CENTERED IN SLAB THICKNESS. PADS SHALL BE SEPARATE FROM MAIN FOUNDATION SLAB. SLOPE PADS 1/4"/FT AWAY FROM DOOR OPENINGS.
4. THE INTERIOR CONCRETE SLABS AT DOORWAYS ARE TO BE FINISHED LEVEL, NO SLOPE.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

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DAVID E. NIELSON — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 28392
EXPIRES 9/22/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'R	ORIG./ ENG'R	ENG'R CHK'R	SYS ENG'R	PROJ ENG'R
0	9/8/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RW	NIA	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7-10 CREST PAD BLDG STRUCTURAL PLANS AND SECTIONS

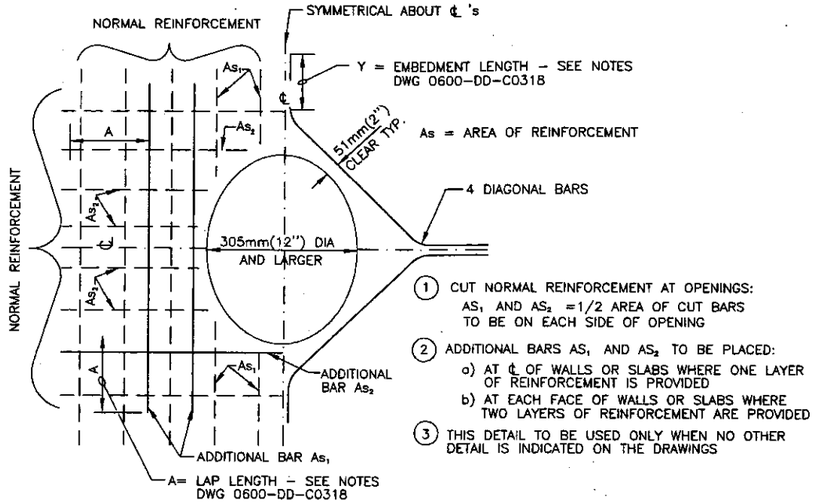
WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0316.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0316	0

RECORD INFORMATION

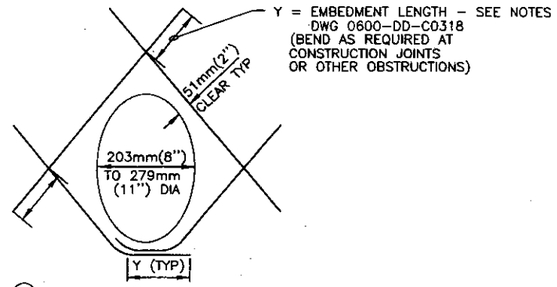
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15896 SHT01	600G	0901

DRAWING NO.	REV. NO.
0600X-DD-C0317	0



1. CUT NORMAL REINFORCEMENT AT OPENINGS: AS_1 AND AS_2 =1/2 AREA OF CUT BARS TO BE ON EACH SIDE OF OPENING
2. ADDITIONAL BARS AS_1 AND AS_2 TO BE PLACED:
   a) AT ℄ OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED
   b) AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED
3. THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS

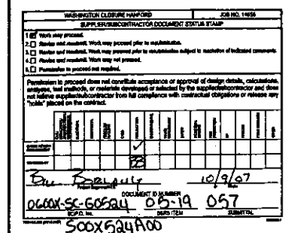
1 ADDITIONAL REFORCMENT AT ELLIPTICAL OPENINGS DETAIL (305mm(12") DIA OR LARGER)
0600X-DD-C0316
NTS



1. CUT NORMAL REINFORCEMENT CLEAR OF OPENING
2. DIAGONAL BARS TO BE PLACED;
   A. AT ℄ OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED
   B. AT EACH FACE OF WALL OR SLAB WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED
3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINF BAR CUT
4. THIS DETAIL TO BE USED ONLY WHEN CALLED FOR ON THE DRAWINGS OR WHEN NO OTHER DETAIL IS SPECIFIED

2 DIAGONAL REFORCEMENT AT ELLIPTICAL OPENINGS DETAIL 203mm(8") -279mm(11") DIA
0600X-DD-C0316
NTS

NOTES



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OCT 08 2007
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DOCUMENT CONTROL mlc 10/11/07

Best Available Copy

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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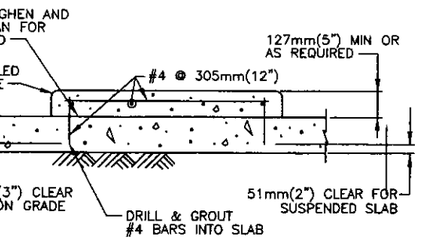
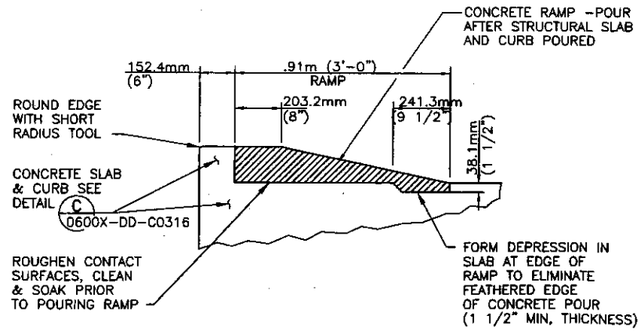
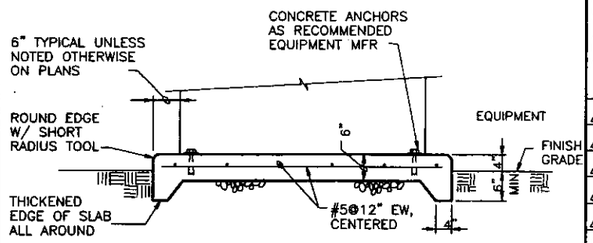
EXPIRES 9/24/2008



3 HOUSE KEEPING PAD DETAIL
0600X-DD-E0116
NTS



4 RAMP DETAIL
0600X-DD-C0316
NTS



5 EQUIPMENT PAD DETAIL
0600X-DD-E0107
NTS

RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15897 SHT01	600G	0901

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CK'R	ORIG ENG'R	CHK'R ENG'R	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RW	NW	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
STRUCTURAL DETAILS - 1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0317.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0317	0

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-C0318	0

NOTES:

APPLICABLE CODES: 2006 IBC (INTERNATIONAL BUILDING CODE) AS AMENDED BY THE STATE OF WASHINGTON AND LOCAL AGENCIES.

BUILDING LOADS

FLOOR LOADS:

PUMP ROOM	976 kg/m^2	(200 PSF)
ELECTRICAL ROOM	1465kg/m^2	(300 PSF)
VEHICLE ACCESS	AASHTO H20	

ROOF LOADS:

97.7 kg/m^2 (20psf) MINIMUM ROOF LIVE LOAD.
73.2 kg/m^2 (15psf) GROUND SNOW LOAD (Pg)
97.7 kg/m^2 (20psf) FLAT-ROOF SNOW LOAD (Pf)
117.2 kg/m^2 (24psf) ASHFALL LOAD (A_s)
EXPOSURE COEFFICIENT (Ce) = 0.9
IMPORTANCE FACTOR (I) = 1.1
THERMAL FACTOR (Ct) = 1.1

WIND LOAD:

41 m/s (91 mph) WIND SPEED.
EXPOSURE "C".
IMPORTANCE FACTOR (I) : 1.15
INTERNAL PRESSURE COEFFICIENT: ±0.18

SEISMIC LOAD:

SEISMIC IMPORTANCE FACTOR (I) = 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION:
S_s = 0.47 S_1 = 0.14
SITE CLASS: "D"
SPECTRAL RESPONSE COEFFICIENTS:
S_{DS} = 0.44 S_{D1} = 0.20
SEISMIC DESIGN CATEGORY: "C"
SEISMIC FORCE RESISTING SYSTEM:
N-S ORDINARY STEEL MOMENT FRAME
RESPONSE MODIFICATION FACTOR (R) = 3.5
SEISMIC RESPONSE COEFFICIENT (C_s) = 0.161
E-W ORDINARY STEEL CONCENTRICALLY BRACED FRAME
RESPONSE MODIFICATION FACTOR (R) = 3.25
SEISMIC RESPONSE COEFFICIENT (C_s) = 0.173

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36/A36M, A529/A529M, A572, or A992 UNLESS SHOWN OTHERWISE. ALL ROLLED WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 GRADE 50. SQUARE OR RECTANGULAR STEEL TUBING SHALL CONFORM TO ASTM TO ASTM A-500, GRADE B. STEEL PIPE SHALL BE A501 OR ASTM A53, GRADE B.
2. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION.
3. ALL STRUCTURAL STEEL SHALL BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF PAINT, OIL OR DIRT.
4. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBER. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT THE APPROVAL OF THE CONTRACTOR.
5. ALL WELDING SHALL BE BY THE SHIELDED ARC METHOD AND SHALL CONFORM TO AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. QUALIFICATIONS OF WELDERS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR STANDARD QUALIFICATION PROCEDURE OF THE AWS.

ALUMINUM

ALUMINUM CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN SOCIETY OF CIVIL ENGINEERS SPECIFICATIONS FOR STRUCTURES OF ALUMINUM ALLOY 6061-T6. ALUMINUM SURFACES SHALL BE PREVENTED FROM COMING IN DIRECT CONTACT WITH CONCRETE OR WITH METALS NOT COMPATABLE WITH ALUMINUM, USING METHODS DESCRIBED IN THE SPECIFICATIONS.

FOUNDATIONS

ALLOWABLE SOILS BEARING PRESSURE (GRAVITY LOADS) DEAD PLUS LIVE LOADS = 95.8 kPa (2000 psf) (INCREASE BEARING VALUE BY 1/3 PERMITTED WHEN USING LOAD COMBINATIONS IN SECTION 1605.3.2 THAT INCLUDE WIND OR SEISMIC).

PROVIDE & PLACE 6" COMPACTED GRANULAR FILL AS SPECIFIED UNDER ALL SLABS AND FOOTINGS TO UNDISTURBED EARTH.

GENERAL

1. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE SUBCONTRACTOR PRIOR TO CONSTRUCTION.
2. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
3. STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, CIVIL DRAWINGS AND SHOP DRAWINGS PROVIDED BY MANUFACTURERS OF EQUIPMENT.
4. NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC, UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE CONTRACTOR.
5. VISITS TO THE JOB SITE BY THE CONTRACTOR TO OBSERVE THE CONSTRUCTION DOES NOT IN ANY WAY MEAN THAT CONTRACTOR IS GUARANTORS OF THE CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATIONS, SUPERVISION, NOR SAFETY AT THE JOB SITE.
6. SPECIAL INSPECTION (CONTRACTOR FURNISHED) IS REQUIRED IN ACCORDANCE WITH IBC SECTIONS 109 AND 1704 ON THE FOLLOWING PORTIONS OF THE WORK.
   - CONCRETE PLACEMENT
   - REINFORCING STEEL PLACEMENT
   - STRUCTURAL WELDING AND FABRICATION
   - ANCHORING, EMBEDS AND BOLTS INSTALLED IN CONCRETE
   - HIGH STRENGTH BOLTS
   - GRADING, EXCAVATION, AND FILLING
7. ALL SPECIFIED CONCRETE TESTING DURING CONSTRUCTION WILL BE FURISHED BY SUBCONTRACTOR. ALL SPECIFIED LABORATORY TEST MIXES SHALL BE THE RESPONSIBLITY OF THE SUBCONTRACTOR.
8. CONSTRUCTION SHORING AND BRACING OR FORMWORK SHALL BE IN ACCORDANCE WITH CHAPTER 2 OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" AND ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
9. THE STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITION ONLY. THESE PLANS DO NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STRUCTURES DURING CONSTRUCTION. THE SUBCONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN.

CONCRETE

ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 27.6 MPa (4000psi) EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, EXCEPT 20.7 MPa (3000psi) FOR SECONDARY CONCRETE ELEMENTS SUCH AS SIDEWALKS AND PIPE/CONDUIT ENCASEMENT, OR THRUST BLOCKS.

REINFORCING

1. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MSP-1 "MANUAL OF STANDARD PRACTICE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL, CONCRETE FOR BUILDING".
2. CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE:
   WHEN PLACED ON GROUND:---76.2mm (3")
   ALL OTHER CONCRETE SURFACES:
   #5 BAR OR SMALLER------38.1mm (1 1/2")
   #6 BAR OR LARGER-------50.8mm (2")
3. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE A 90 DEGREE STANDARD BEND AS DEFINED IN LATEST EDITION OF ACI 318.
4. ALL WALL CORNER AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS OR PILASTERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS.
5. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLABS REINFORCEMENT. PROVIDE A MINIMUM OF TWO FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING.
6. UNLESS INDICATED OTHERWISE, SUBCONTRACTOR MAY SPLICE CONTINUOUS SLAB OR LONGITUDINAL BEAM BARS AT LOCATIONS OF HIS CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MIDSPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS.

CONCRETE DESIGN STRENGTH = 4,000 PSI		GRADE 60 REINFORCING STEEL								
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
LAP SPLICE LENGTH										
SPACING ≤152mm (6")	TOP BAR *	1'-4" .41m	2'-0" .61m	3'-0" .91m	4'-0" 1.22m	5'-10" 1.78m	6'-8" 2.03m	7'-7" 2.31m	8'-6" 2.59m	9'-5" 2.87m
	OTHER BAR	1'-4" .41m	1'-7" .48m	2'-4" .71m	3'-1" .94m	4'-6" 1.37m	5'-2" 1.58m	5'-10" 1.78m	6'-7" 2.01m	7'-3" 2.21m
SPACING ≥152mm (6")	TOP BAR *	1'-4" .41m	1'-8" .51m	2'-0" .61m	2'-5" .74m	3'-6" 1.07m	4'-0" 1.22m	5'-0" 1.52m	6'-2" 1.88m	7'-5" 2.26m
	OTHER BAR	1'-4" .41m	1'-4" .41m	1'-7" .48m	1'-10" .56m	2'-9" .84m	3'-1" .94m	3'-10" 1.17m	4'-9" 1.45m	5'-8" 1.73m
EMBEDMENT LENGTH										
SPACING ≤152mm (6")	TOP BAR *	1'-0" .31m	1'-7" .48m	2'-4" .71m	3'-1" .94m	4'-6" 1.37m	5'-2" 1.58m	5'-10" 1.78m	6'-7" 2.01m	7'-3" 2.21m
	OTHER BAR	1'-0" .31m	1'-3" .38m	1'-9" .53m	2'-5" .74m	3'-6" 1.07m	4'-0" 1.22m	4'-6" 1.37m	5'-1" 1.55m	5'-7" 1.70m
SPACING ≥152mm (6")	TOP BAR *	1'-0" .31m	1'-3" .38m	1'-7" .48m	1'-10" .56m	2'-9" .84m	3'-1" .94m	3'-10" 1.17m	4'-9" 1.45m	5'-8" 1.73m
	OTHER BAR	1'-0" .31m	1'-0" .31m	1'-2" .31m	1'-5" .43m	2'-1" .64m	2'-5" .74m	3'-0" .91m	3'-8" 1.12m	4'-5" 1.35m

* TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 304.8mm (12") OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.

7. DOWELS, PIPES, WATERSTOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
8. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONC. BLOCKS (OR DOBBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUPPORT BE CONTINUOUS.
9. DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE WET SET INTO FRESHLY PLACED CONCRETE.
10. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE, A MINIMUM OF 51mm(2 INCHES) CLEARANCE SHALL BE PROVIDED AT ALL TIMES.

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15898 SHT01	600G	0901

NOTES

0600X-SC-G0524 05-19 0586
500XS24A00

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DAVID E. NIELSON, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 28392
EXPIRES 9/23/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENGR	ENGR CHK	DISC ENGR	PROJ ENGR
0	9/26/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RW	NW	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
STRUCTURAL DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDC0318.DWG

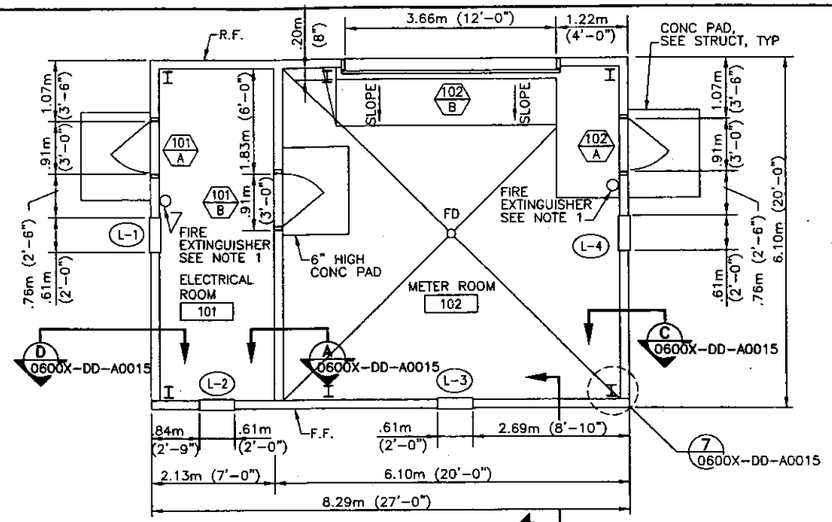
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-C0318	0

DRAWING NO.	REV. NO.
0600X-DD-A0014	0

NOTE: BUILDING ORIENTATION VARIES SEE BELOW

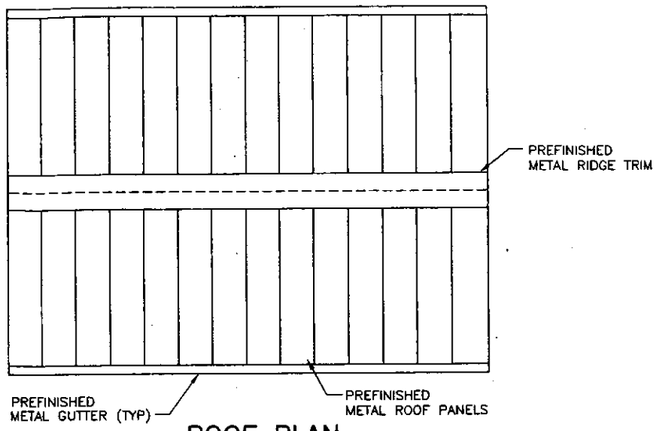
CREST PAD BUILDING CELL 7 & 9

CREST PAD BUILDING CELL 8 & 10



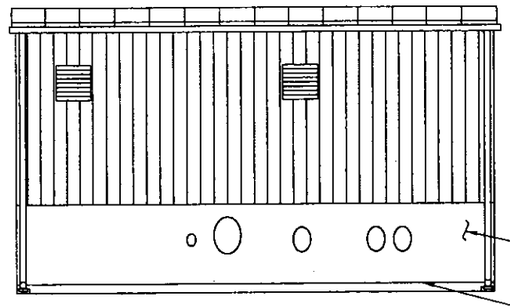
FLOOR PLAN

SCALE 0 5 10 feet



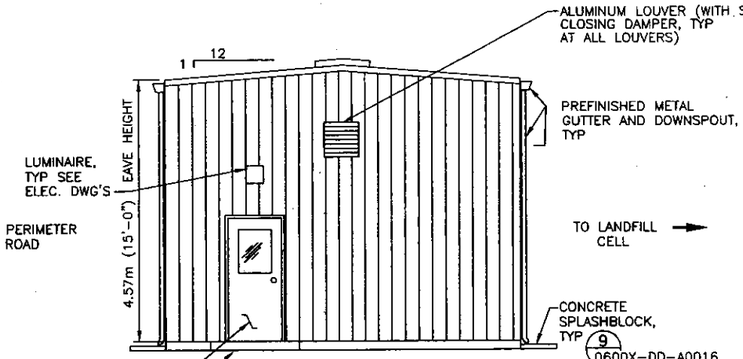
ROOF PLAN

SCALE 0 5 10 feet



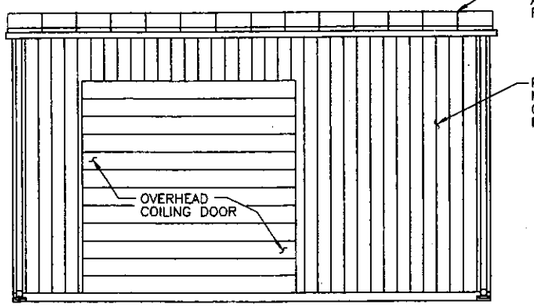
ELEVATION – CELL SIDE

SCALE 0 5 10 feet



SIDE ELEVATION

SCALE 0 5 10 feet



ELEVATION– ROAD SIDE

SCALE 0 5 10 feet

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OCT 08 2007
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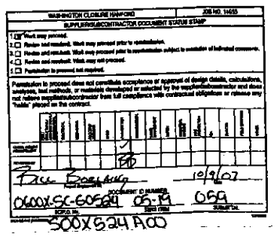

NOTES

1. FIRE EXTINGUISHER SPECIFICATIONS

GENERAL:

CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION (NFPA): NO. 10 STANDARD FOR PORTABLE FIRE. EXTINGUISHERS.

A. PROVIDE HAND EXTINGUISHER FOR THE ELECTRICAL ROOM THAT MEETS THE FOLLOWING REQUIREMENTS:

1. CARBON DIOXIDE.
2. PRESSURIZED, RED ENAMELED STEEL SHELL CYLINDER.
3. ACTIVATED BY TOP SQUEEZE HANDLE.
4. AGENT PROPELLED THROUGH HOSE AND SPREADER NOZZLE.
5. FOR USE ON B AND C CLASS FIRES.
6. MINIMUM UL RATING: 10B:C, 15–POUND CAPACITY.

B. PROVIDE HAND EXTINGUISHER FOR THE METER ROOM THAT MEETS THE FOLLOWING REQUIREMENTS:

1. TRI–CLASS DRY CHEMICAL EXTINGUISHING AGENT.
2. PRESSURIZED, RED ENAMELED STEEL SHELL CYLINDER.
3. ACTIVATED BY TOP SQUEEZE HANDLE.
4. AGENT PROPELLED THROUGH HOSE AND SPREADER NOZZLE.
5. FOR USE ON A, B, AND C CLASS FIRES.
6. MINIMUM UL RATING: 4A–60B:C, 10–POUND CAPACITY.

FURNISH HEAVY–DUTY BRACKETS WITH CLIP–TOGETHER STRAP FOR WALL MOUNTING.

EXECUTION:

PROVIDE AT LOCATIONS SHOWN OR AS DIRECTED BY CONTRACTOR.

MOUNT HANGERS SECURELY IN POSITION, FOLLOWING MANUFACTURER'S RECOMMENDATIONS.

TOP OF EXTINGUISHER: NO MORE THAN 54–INCHES ABOVE FLOOR.

2. BLDG TYPICAL (4 PLACES) FOR CELLS 7/8 & 9/10.

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) 0. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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DAVIS & NIELSON — STATE OF WASHINGTON — 26892 — REGISTERED PROFESSIONAL ENGINEER — 7/24/07 — EXPIRES 9/24/07

DOCUMENT CONTROL mjc 10/11/07

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	CRDL/ ENGR	ENGR CHK'R	EVS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RJN	NHN	

SCALE: AS SHOWN

CODE NOTES (2006 IBC)

OCCUPANCY:	III
CONSTRUCTION TYPE:	V
ALLOWABLE FLOOR AREA:	13,000 S.F.
ACTUAL FLOOR AREA:	540 S.F.
ALLOWABLE HEIGHT:	40 FT.
ALLOWABLE NUMBER OF STORIES:	TWO
ACTUAL NUMBER OF STORIES:	ONE
NUMBER OF OCCUPANTS (CALCULATED):	TWO
ACTUAL NUMBER OF OCCUPANTS:	NOT NORMALLY OCCUPIED

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15900 SHT01	600G	0801

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

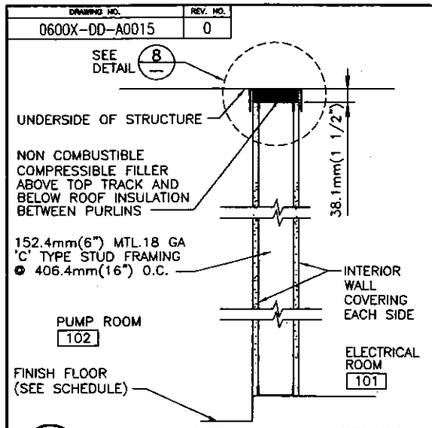
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7–10
CREST PAD BLDG – PLANS AND ELEVATIONS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDA0014.DWG

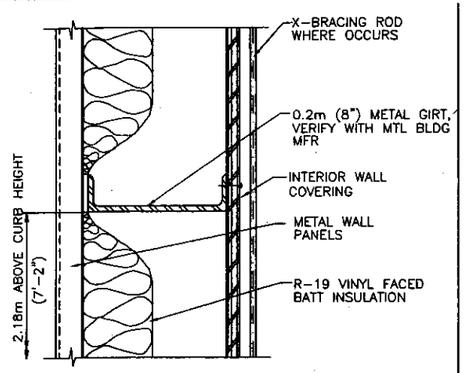
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-A0014	0

River Corridor Closure Contract — Dedicated To Safety Excellence — WCH

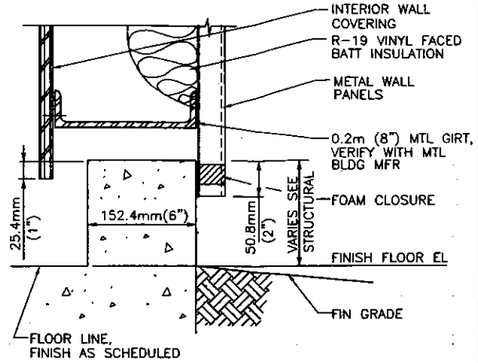
DRAWING NO.	REV. NO.
0600X-DD-A0015	0



A METAL STUD PARTITION
0600X-DD-A0014
NTS



B TYPICAL WALL DETAIL AT WALL COVERING
0600X-DD-A0014
NTS



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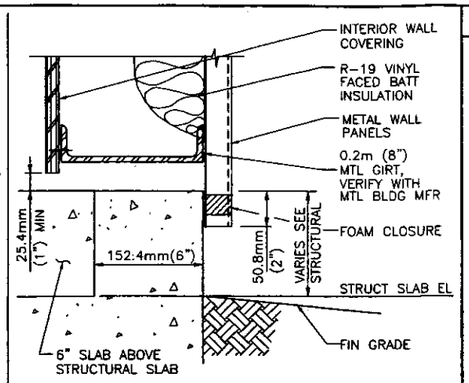
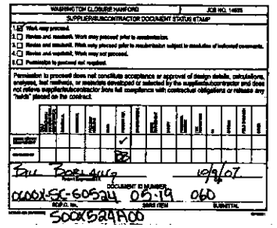


D TYPICAL WALL DETAIL AT ELEC. RM
0600X-DD-A0014
NTS

NOTES

1. ALL EXTERIOR METAL TRIM AND FLASHING SHALL BE FACTORY FINISHED IN COLOR MATCHING WALL PANELS AND PROVIDED BY METAL BUILDING MANUFACTURER.
2. METAL BUILDING MANUFACTURER SHALL PROVIDE TRIM AND FLASHING IN CONFIGURATIONS THAT ALLOW FOR THERMAL MOVEMENT.



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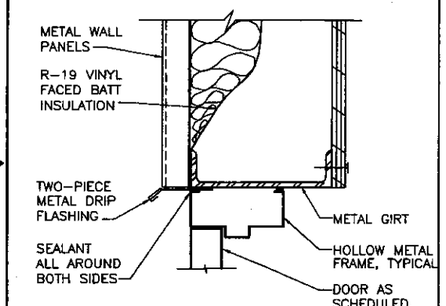
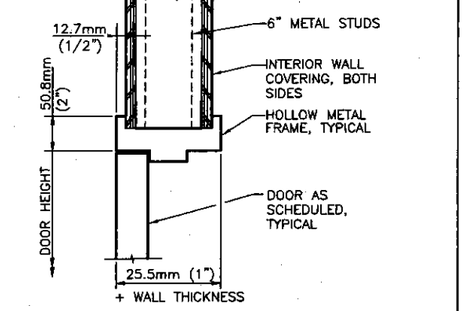


1 DOOR HEAD
0600X-DD-A0017
NTS



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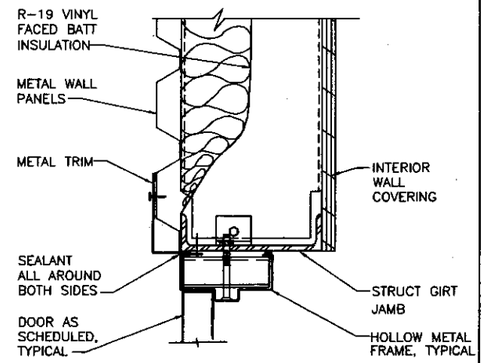
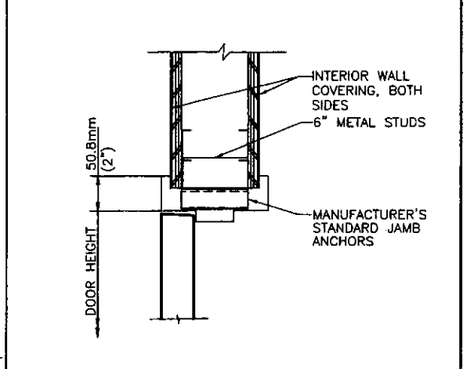
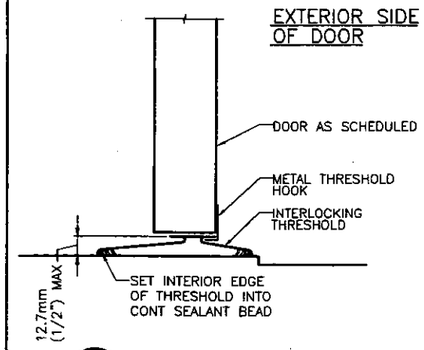
0600X-DD-A0017
NTS



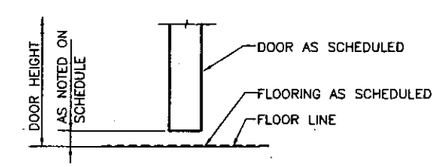
3 DOOR JAMB
0600X-DD-A0017
NTS



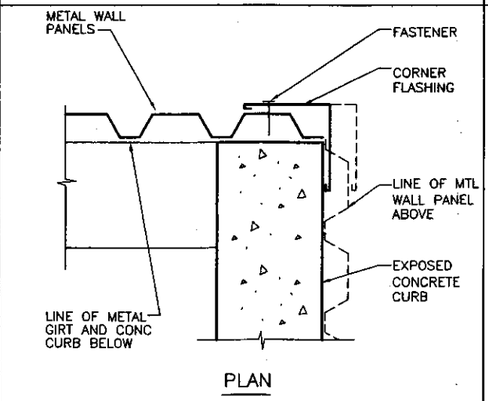
4 DOOR JAMB
0600X-DD-A0017
NTS



5 DOOR SILL
0600X-DD-A0017
NTS

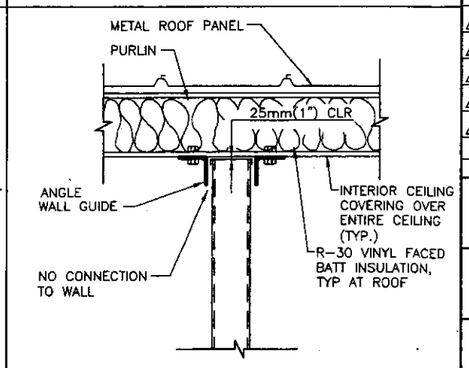


6 DOOR SILL
0600X-DD-A0017
NTS



PLAN

7 CORNER DETAIL
0600X-DD-A0017
NTS



8 DETAIL
0600X-DD-A0017
NTS

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15901 SHT01	600G	0801

DOCUMENT CONTROL date 10/11/07

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DAVID E. NIELSON — STATE OF WASHINGTON — 28572 — REGISTERED PROFESSIONAL ENGINEER — 10/11/07 — EXPIRES 9/24/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORG/ ENGR	ENGR CHK	SYS ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RW	NLD	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

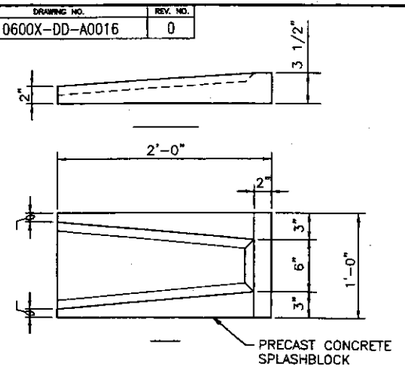
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 -10
ARCHITECTURAL DETAILS - 1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDA0015.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-A0015	0

Dedicated To Safety Excellence WCH

DRAWING NO.	REV. NO.
0600X-DD-A0016	0



9 SPLASHBLOCK
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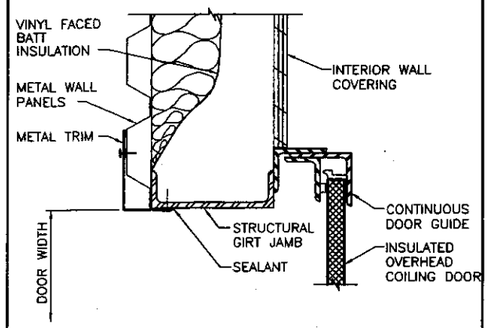
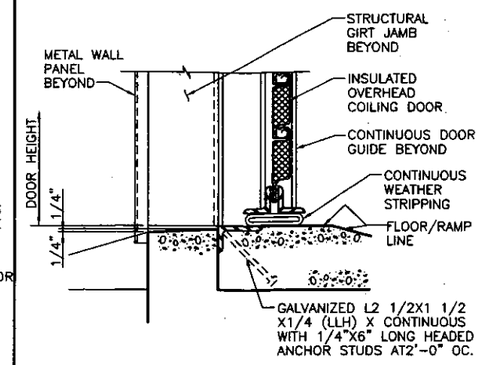


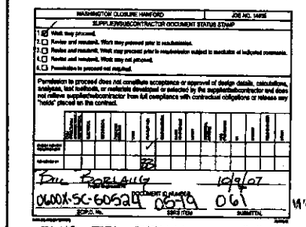
10 OVERHEAD COILING DOOR JAMB
0600X-DD-A0017
NTS



11 OVERHEAD COILING DOOR SILL
0600X-DD-A0017
NTS

NOTES

1. ALL EXTERIOR METAL TRIM AND FLASHING SHALL BE FACTORY FINISHED IN COLOR MATCHING WALL PANELS AND PROVIDED BY METAL BUILDING MANUFACTURER.
2. METAL BUILDING MANUFACTURER SHALL PROVIDE TRIM AND FLASHING IN CONFIGURATIONS THAT ALLOW FOR THERMAL MOVEMENT.



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DAVIS & NIELSON — STATE OF WASHINGTON — 28592 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES 9/23/08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	ER	MF	MF	RW	NIA	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7-10
ARCHITECTURAL DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDA0016.DWG

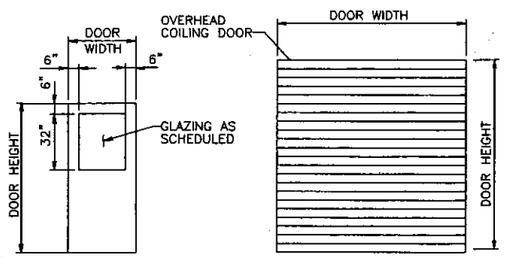
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-A0016	0

RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15902 SHT01	600G	0801

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

DRAWING NO.	REV. NO.
0600X-DD-A0017	0

DOOR AND FRAME TYPES



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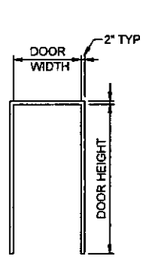
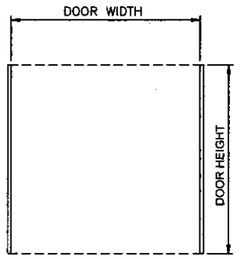


F-1



F-2

INTERIOR FINISH SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM	HGT	HEIGHT
AS	AS SELECTED	INSUL	VINYL FACED BATT INSULATION
CLR	CLEAR	MATL	MATERIAL
COL	COLOR	MET	METAL
CONC	CONCRETE	MSG	MANUFACTURER'S STANDARD
EXP	EXPOSED STRUCTURE	HDNR	CLEAR FLOOR HARDENER
FCTY	FACTORY	WD	WOOD
FNSH	FINISH		

NOTES:

1. NUMBERS IN FINISH COLUMN REFER TO PAINT SYSTEMS IN TECHNICAL SPECIFICATION FOR COATINGS AND FINISHES
2. CODES IN COL COLUMN REFER TO COLOR LIST ON THIS SHEET.
3. FOR EXTERIOR FINISHES AND COLORS, SEE THIS SHEET AND ELEVATION DRAWINGS.
4. REFER TO TECHNICAL SPECIFICATION FOR REINFORCED CONCRETE FOR SCHEDULE OF CONCRETE FINISHES.
5. INTERIOR WALLS AND CEILING SHEATHED FULL HEIGHT WITH INTERIOR WALL AND CEILING COVERING.
6. CONCRETE CURB VARIES IN HEIGHT, SEE STRUCTURAL DRAWINGS.
7. PAINT MISCELLANEOUS METALS WITH PS-5, COLOR P-3.
8. PLYWOOD AT EXTERIOR WALLS TO BE FULL HEIGHT ABOVE CONCRETE CURB ELEV.

SPACE		FLOOR			BASE					TYPICAL WALL			OTHER WALL				CEILING				MISC.
NO.	NAME	SUB FL	FNSH	COL	HGT	MATL	FNSH	COL	WALLS	MATL	FNSH	COL	WALL	MATL	FNSH	COL	HGT	MATL	FNSH	COL	
CREST PAD BUILDING																					
101	ELECTRICAL ROOM	CONC	HDNR	CLR	--	--	--	--	--	NOTE 5	PS-2	P-3	NOTE 5	NOTE 5	PS-2	P-3	VARIES	NOTE 5	PS-2	P-3	NOTE 7 NOTE 8
102	METER ROOM	CONC	PS-6	P-1	NOTE 6	CONC	PS-6	P-3	ALL	NOTE 5	PS-2	P-3	NOTE 5	NOTE 5	PS-2	P-3	VARIES	NOTE 5	PS-6	P-3	NOTE 7 NOTE 8

DOOR AND HARDWARE SCHEDULE

ABBREVIATIONS:

AL	ALUMINUM	HM	HOLLOW METAL
AS	AS SELECTED	MATL	MATERIAL
COL	COLOR	MET	METAL
FCTY	FACTORY	TG	TEMPERED GLASS
FNSH	FINISH		

NOTES:

1. NUMBERS IN "FNSH" COLUMN REFER TO PAINT SYSTEMS IN TECHNICAL SPECIFICATION FOR COATINGS AND FINISHES.
2. CODES ON "COL" COLUMN REFER TO COLOR LIST ON THIS SHEET
3. FOR GLASS TYPES AND HARDWARE SETS REFER TO TECHNICAL SPECIFICATION FOR CREST PAD BUILDING.
4. METAL BUILDING MANUFACTURER'S STANDARD.
5. FOR DOOR DETAILS SEE DRAWING 0600X-DD-A0015 AND 0600X-DD-A0016.
6. PROVIDE NAMEPLATES ON EACH SIDE OF DOOR. MESSAGE TEXT TO MATCH ROOM NAME IN INTERIOR FINISH SCHEDULE. REFER TO TECHNICAL SPECIFICATION FOR CREST PAD BUILDING.

OPENING																HARDWARE SET	FIRE PROTECTION RATING	OTHER REQUIREMENTS
	DOOR SIZE		DOOR					FRAME				DETAILS						
NO.	WIDTH	HEIGHT	CONSTR	TYPE	GLASS	FNSH	COL	MATL	TYPE	FNSH	COL	HEAD	JAMB	SILL		NO.		
CREST PAD BUILDING																		
101A	3'-0"	7'-0"	HM	G	TG	PS-5	P-2	HM	F-1	PS-5	P-2	1	3	5		HDW-1	--	--
101B	3'-0"	7'-0"	HM	G	TG	PS-5	P-2	HM	F-1	PS-5	P-2	2	4	6		HDW-2	--	NOTE 6
102A	3'-0"	7'-0"	HM	G	TG	PS-5	P-2	HM	F-1	PS-5	P-2	1	3	5		HDW-1	--	NOTE 6
102B	12'-0"	12'-0"	MET	OCD	--	PS-5	P-2	MET	F-2	PS-5	P-2	NOTE 4	10	11		HDW-3	--	--

EXTERIOR FINISH SCHEDULE

ITEM / MATERIAL	FINISH	COLOR
PREFINISHED METAL WALL PANEL	FCTY	M-1
PREFINISHED METAL ROOF PANEL	FCTY	M-2
CAST-IN-PLACE CONCRETE	AS SPECIFIED	NATURAL GRAY
PREFINISHED GUTTER AND DOWNSPOUTS	FCTY	M-1

LOUVER SCHEDULE

ABBREVIATIONS:

DB DRAINABLE BLADE

NOTES:

1. METAL BUILDING MANUFACTURER'S STANDARD DETAIL.
2. PROVIDE SELF-CLOSING DAMPER

OPENING			LOUVER				DETAILS			OTHER REQUIREMENTS
NO.	WIDTH	HEIGHT	TYPE	MATL	FNSH	COL	HEAD	JAMB	SILL	
L-1	2'-0"	2'-0"	DB	AL	FCTY	O-1	NOTE 1			SILL AT 10'-6" AFF, NOTE 2
L-2	2'-0"	2'-0"	DB	AL	FCTY	O-1	NOTE 1			SILL AT 10'-6" AFF, NOTE 2
L-3	2'-0"	2'-0"	DB	AL	FCTY	O-1	NOTE 1			SILL AT 10'-6" AFF, NOTE 2
L-4	2'-0"	2'-0"	DB	AL	FCTY	O-1	NOTE 1			SILL AT 10'-6" AFF, NOTE 2

COLOR LIST

NOTES:

1. COLOR SELECTIONS FOR THIS PROJECT MAY BE NOTED IN DOOR AND HARDWARE SCHEDULE, INTERIOR FINISH SCHEDULE, EXTERIOR FINISH SCHEDULE, AND ON THE DRAWINGS, BY THE LETTER-NUMBER COMBINATION IN THE IN THE MARK COLUMN OF THE LIST.
2. SOME COLOR SELECTIONS MAY BE MADE IN VARIOUS SPECIFICATION SECTIONS.
3. USE ONLY THE COLORS NOTED OR SCHEDULED. IF A COLOR SELECTION IS NOT MADE, REQUEST ONE FROM CONTRACTOR.

MARK	ITEM	MANUFACTURER	COLOR	OTHER REQUIREMENTS
P	PAINTING			
P-1	PAINT (FLOOR)	AS SPECIFIED	STANDARD GRAY	MATCH EXISTING CREST PAD BUILDINGS
P-2	PAINT (DOORS AND FRAMES)	AS SPECIFIED	AS SELECTED	
P-3	PAINT	AS SPECIFIED	AS SELECTED	
M	MISCELLANEOUS			
M-1	PREFINISHED METAL WALL PANELS, GUTTERS & DOWNSPOUTS	METAL BUILDING MFR	LIGHT BRONZE	MATCH EXISTING CREST PAD BUILDINGS
M-2	PREFINISHED METAL ROOF PANELS	METAL BUILDING MFR	LIGHT BRONZE	MATCH EXISTING CREST PAD BUILDINGS
M-3	VINYL FACED BATT INSULATION	METAL BUILDING MFR	WHITE	
O	OPENING			
O-1	LOUVER	METAL BUILDING MFR	LIGHT BRONZE	MATCH EXISTING CREST PAD BUILDINGS

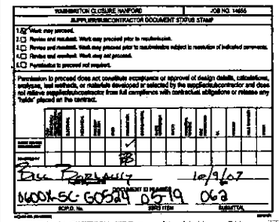
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15903 SHT01	600G	0801

River Corridor Closure Contract
Dedicated To Safety Excellence
WCH

NOTES

1. ALL SCHEDULES APPLY TO BOTH CREST PAD BUILDINGS.
2. ALL COLOR SELECTIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION OR APPLICATION OF MATERIAL.



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REV.	DATE	DESCRIPTION	DRAWN BY	DSN/T CHK	ORG/ ENGR	ENG'R CHK	SYS. ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	BR	MF	MF	RW	NK	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
FINISH SCHEDULES

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDA0017.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-A0017	0

DRAWING NO.	REV. NO.	
0600X-DD-E0104	0	PLAN

PLAN

- GROUND BUS
- EXPOSED CONDUIT
- CONDUIT CONCEALED ABOVE FLOOR.
- CONDUIT RUN UNDERGROUND OR IN CONCRETE
- EXPOSED CONDUIT RUN BEHIND OBSTRUCTION
- BARE COPPER GROUND TO GROUND WIRE IN SLAB, OR UNDERGROUND GROUND GRID, SIZE AS NOTED.
- UNDERGROUND TELEMETRY CONDUIT
- LP-T1-1, 3, 5 — HOME RUN TO PANEL "LP-T1", CIRCUITS #1, 3, 5. CONDUCTORS SHALL BE NO. 12 UNLESS OTHERWISE NOTED. CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED. CONDUIT SIZES NOT IDENTIFIED SHALL BE 3/4" MINIMUM WITH 2#12, 1#12G. G INDICATES GROUND WIRE.
- T — TELEPHONE CONDUIT ONLY. "UNLESS OTHERWISE NOTED".
- CONDUIT RUN – CHANGE IN ELEVATION
- CONDUIT BENDS TOWARD OBSERVER
- CONDUIT BENDS AWAY FROM OBSERVER
- CONDUIT CAPPED, OR SEALED
- FLEXIBLE LIQUID – TIGHT CONDUIT CONNECTION
- C135 — INDICATES CONDUIT NUMBER
- 2a — CEILING OR PENDANT INCANDESCENT, HIGH PRESSURE SODIUM, OR SIMILAR LAMP LUMINAIRE. "2" INDICATES CIRCUIT NUMBER. "a" INDICATES LUMINAIRE CONTROLLED BY SWITCH "a".
- WALL BRACKET INCANDESCENT, HIGH PRESSURE SODIUM, OR SIMILAR LAMP LUMINAIRE WITH EXPOSED BACK BOX AND CONDUIT.
- WALL BRACKET FLOOD OR SPOTLIGHT WITH CONCEALED BACK BOX AND CONDUIT.
- POLE MOUNTED LUMINAIRE DISTRIBUTION TYPE AS INDICATED ON PLAN
- A 2/34 3 — LUMINAIRE TYPE A. 2–34 WATT LAMPS 3 – NUMBER OF TYPE "A" FIXTURES
- FLUORESCENT LUMINAIRE, UNSWITCHED (SWITCHED AT LIGHTING PANEL ONLY)
- EO — FLUORESCENT LUMINAIRE ON EMERGENCY CIRCUIT
- FLUORESCENT LUMINAIRE
- BATTERY EMERGENCY LUMINAIRE
- S_a — SINGLE POLE SWITCH. "a" INDICATES CIRCUIT CONTROLLED
- S_2 — DOUBLE POLE SWITCH
- S_3 — THREE-WAY SWITCH
- S_4 — FOUR-WAY SWITCH
- S_K — KEY-OPERATED SWITCH
- S_P — SWITCH AND PILOT LIGHT
- S_M — MANUAL MOTOR STARTER
- WALL / FLOOR — 120V SINGLE RECEPTACLE, NEMA CONFIGURATION 5-20.
- WALL / FLOOR — 120V DUPLEX RECEPTACLE, NEMA CONFIGURATION 5-20
- 240V SINGLE RECEPTACLE, NEMA CONFIGURATION 6-20
- WELDING RECEPTACLE, 100A, 2W, 3P MOUNT 42" ABOVE FLOOR
- SINGLE SPECIAL PURPOSE RECEPTACLE 480 VAC
- C — CLOCK HANGER RECEPTACLE
- LIGHTING PANEL
- POWER PANEL
- MOTOR CONTROL CENTER
- FLOOR TYPE TELEPHONE OUTLET
- PUBLIC TELEPHONE SYSTEM DEVICE
- PRIVATE TELEPHONE (ANY TYPE) SYSTEM DEVICE
- DISCONNECT SWITCH
- MOTOR STARTER
- M — MOTOR
- SS — PUSHBUTTON STATION "SS" START-STOP, "LOS" LOCKOUT-STOP, "SLOS" START-LOCKOUT-STOP
- JB — RACEWAY BOX "HH" HANDHOLE "JB" JUNCTION BOX "PB" PULLBOX "TB" TERMINAL BOX
- J — JUNCTION BOX OR FITTING
- PSL-1 — FIELD INSTRUMENT I.E. "PSL" PRESSURE SWITCH "LSH" LEVEL SWITCH "SV" SOLENOID VALVE
- SV — SOLENOID VALVE
- T — THERMOSTAT
- H — HEATER
- HORN
- 1 — DENOTES REFERENCE TO NOTE 1 I.E. – " SEE NOTE 1 "
- GROUND ROD 3/4" x 10" – 0" (UNLESS OTHERWISE NOTED)
- GROUND ROD AND GROUND TEST WELL
- GROUND CONNECTION BOLTED TYPE
- GROUND CONNECTION – EXOTHEMIC TYPE
- M — MOTOR OPERATED VALVE

ONE LINE DIAGRAM

- BUS
- 2 — ACROSS-THE-LINE, NON-REVERSING NEMA SIZE 2 MAGNETIC STARTER
- 30A — CONTACTOR, SIZE AS NOTED
- 50A OR 225AF 125AT — MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED: 50A.-TRIP RATING IN AMPERE NA- NON-AUTOMATIC MCP – MOTOR CIRCUIT PROTECTOR AT-TRIP RATING (125 AMPS NOTED)
- 52 — MEDIUM OR HIGH VOLTAGE DRAWOUT BREAKER
- DRAWOUT BREAKER, SIZE AS NOTED EO – DENOTES ELECTRICALLY OPERATED
- MEDIUM OR HIGH VOLTAGE STARTER
- SURGE ARRESTOR
- 10 — MOTOR – 10 HP NOTED
- 480/120V — TRANSFORMER WITH GROUNDED SECONDARY, KVA SIZE & VOLTAGE RATIO AS NOTED.
- PT (2) — POTENTIAL TRANSFORMER, RATIO AND NUMBER OF PT'S AS NOTED
- CT 100/5 (3) — CURRENT TRANSFORMER, RATIO AND NUMBER OF CT'S AS NOTED
- I — ELECTRICAL INTERLOCK
- ELECTRICAL ENCLOSURE OUTLINE
- MOV — ELECTRICAL MOTOR OPERATED VALVE, WITH INTEGRAL REVERSING STARTER
- DISCONNECT SWITCH, SIZE AS NOTED
- FUSED DISCONNECT SWITCH
- 10 KVAR — CAPACITOR, KVAR AS NOTED
- KWH DM — KILOWATTHOUR METER WITH DEMAND REGISTER
- AM — AMMETER
- VM — VOLTMETER
- PF — POWER FACTOR METER
- VAR — VARMETER
- AS — AMMETER SWITCH
- VS — VOLTMETER SWITCH

SCHEMATIC DIAGRAM

- CONTROL RELAY OR COIL
  - EXAMPLE * TD2 TIME DELAY RELAY NO. 2; CR1 CONTROL RELAY; 1M STARTER NO. 1 MAIN COIL
- N.O. CONTACT
- N.C. CONTACT
- TORQUE SWITCH (SPECIFY WHEN OPEN)
- NORMALLY OPEN LIMIT SWITCH
- NORMALLY CLOSED LIMIT SWITCH
- FLOAT TYPE LIQUID LEVEL SWITCH, CLOSING ON RISING LEVEL
- FLOAT TYPE LIQUID LEVEL SWITCH, OPENING ON RISING LEVEL
- VACUUM OR PRESSURE SWITCH, CLOSING ON RISING PRESSURE
- VACUUM OR PRESSURE SWITCH, OPENING ON RISING PRESSURE
- TEMPERATURE ACTUATED SWITCH; CLOSING ON RISING TEMPERATURE
- TEMPERATURE ACTUATED SWITCH; OPENING ON RISING TEMPERATURE
- FLOW SWITCH (AIR, WATER, ETC.); CLOSING ON FLOW INCREASE
- FLOW SWITCH (AIR, WATER, ETC.); OPENING ON FLOW INCREASE
- NORMALLY OPEN PUSHBUTTON, MOMENTARY CLOSE
- NORMALLY CLOSED PUSHBUTTON, MOMENTARY OPEN
- NO/NC MAINTAINED PUSHBUTTON
- ON OFF — TWO-POSITION SELECTOR SWITCH: H-HAND, M-MANUAL, R-REMOTE, L-LOCAL, A-AUTOMATIC, O-OFF
- H O A — THREE-POSITION SELECTOR SWITCH. (SAME AS ABOVE)
- THREE-POSITION SPRING RETURN-TO-CENTER MOMENTARY CONTACT SWITCH ("LATCH-UNLATCH," "ON-OFF," ETC.)
- SINGLE POLE TOGGLE SWITCH ("ON-OFF", ETC.)
- OL — OVERLOAD RELAY CONTACTS (MAGNETIC)
- TIMED CONTACTS – CONTACT ACTION DELAYED AFTER COIL IS: ENERGIZED
  - NORMALLY OPEN WITH TIME DELAY CLOSING
  - NORMALLY CLOSED WITH TIME DELAY OPENING
- DE-ENERGIZED
  - NORMALLY OPEN WITH INSTANT CLOSING AND TIME DELAY OPENING
  - NORMALLY CLOSED WITH INSTANT OPENING AND TIME DELAY CLOSING
- MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
- FUSE
- RES — RESISTOR (FIXED) POTENTIOMETER TYPE
- RESISTOR (CONTINUOUSLY ADJUSTABLE)
- R — PUSH-TO-TEST INDICATING LIGHT
- ETM — ELAPSED TIME METER
- HEATER
- CROSSING OF CONDUCTORS-NOT CONNECTED
- CONNECTION OF CONDUCTORS, FITTING AS REQUIRED
- DISCONNECT SWITCH
- GROUND CONNECTION
- SURGE SUPPRESSOR
- ELECTRICAL CORD CONNECTOR
- G — INDICATING LIGHT G – GREEN R – RED A – AMBER
- I/I — SIGNAL ISOLATOR
- M — MOTOR

NOTES:

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS DRAWING AND NOT ON THE PLANS.
2. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS, SEE OTHER LEGENDS.

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15904 SHT01	6000	8802

NOTES

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Dorlang 10/9/07

0600X-SC-G0524 05-19 063

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RAYMOND E. MERRILL — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-20-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRWN CHK	ORIG/ENGR CHK	ENGR CHK	DSN ENGR	PROJ ENGR
0	9/28/07	ISSUED FOR CONSTRUCTION	BEM	SD	[illegible]	[illegible]	N/A	[illegible]

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 –10
ELECTRICAL SYMBOLS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0104.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0104	0

DRAWING NO.	REV. NO.
0600X-DD-E0105	0

ABBREVIATIONS

Abbreviation	Meaning
A	AMPERE, AUTO, AMMETER, AMP
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AF	AMPERE FRAME SIZE OF CKT. BREAKERS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AM	AMMETER
ANN	ANNUNCIATOR
AMP	AMPERES, AMPERAGE
APPR	APPROVED
AS	AMMETER SWITCH, ADJUSTABLE SPEED
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BKR	BREAKER
BBL	BUBBLER
BLDG	BUILDING
C	CONDUIT, CLOSED
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY
COND	CONDUIT
COMPT	COMPARTMENT
COMPR	COMPRESSOR
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER (IN INDIVIDUAL STARTER CUBICLE)
CR	CONTROL RELAY (MAGNETICALLY HELD)
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DH	DATA HIGHWAY
DISC	DISCONNECT
DISTR	DISTRIBUTION
DPDT	DOUBLE POLE DOUBLE THROW
DWG	DRAWING
E	EMPTY, EMERGENCY
ELEV	ELEVATION
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
EQPT	EQUIPMENT
ER	CONDUCTANCE LEVEL RELAY
ETM	ELAPSED TIME METER
EXH	EXHAUST
EXIST	EXISTING
FI	FLOW INDICATOR
F, ~	FREQUENCY
FDR	FEEDER
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FM	FREQUENCY METER
FUT	FUTURE
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
FWD	FORWARD CONTACTOR COIL
GALV	GALVANIZED
GEN	GENERATOR
HIGH	HIGH SPEED CONTACTOR
HOA	HAND - OFF - AUTOMATIC
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HVAC	HEATING VENTILATION AIR CONDITIONING
HZ	HERTZ
INCAND	INCANDESCENT
IND	INDICATION (SYSTEM)
I/O	INPUT/OUTPUT
INST	INSTANTANEOUS (TD CONTACT)
INSTR	INSTRUMENT
Isc	SHORT CIRCUIT CURRENT, AMPS
J BOX	JUNCTION BOX
JB	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILLS
KVA	KILO (1000) VOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOUR
LC	LIGHTING CONTACTOR
LCB	LOCAL CONTROL BOARD
LCP	LOCAL CONTROL PANEL
LOC	LOCAL
LOS	PUSHBUTTON W/"LOCK-OUT-STOP"
LS	LEVEL SWITCH
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
LOW	LOW SPEED CONTACTOR
M	MOTOR CONTACTOR COIL, MOTOR
MA	MILLIAMPS
MAN	MANUAL
MAG	MAGNETIC
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCB	MAIN CONTROL BOARD
MCP	MOTOR CIRCUIT PROTECTOR
MD	MOTORIZED DAMPER
MH	MANHOLE
MIN	MINUTES, MINIMUM
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE
MS	MANUAL MOTOR STARTER
MT, MTD	MOUNT, MOUNTED
MTR	MOTOR
MUX	MULTIPLEXING PANEL
N	NEUTRAL
NA	NON-AUTOMATIC
NC	NORMALLY CLOSED
NO, NOS	NUMBER, NUMBERS, NORMALLY OPEN
NP	NAMEPLATE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NITS	NOT IN THIS SECTION
NTS	NOT TO SCALE
O	OPEN
OC	ON CENTER
CC	CENTER TO CENTER
OL	OVERLOAD RELAY
P	POLE
PB	PUSHBUTTON, PULLBOX
PCM	PROCESS CONTROL MODULE
PCP	PROCESS CONTROL PANEL
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PNLBD	PANELBOARD
POS	POSITION
POT	POTENTIOMETER
PRI	PRIMARY
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PW	PART WINDING
PWR	POWER
REC	RECEPTACLE
RECPTS	RECEPTACLES
REQ'D	REQUIRED
REV	REVERSE CONTACTOR COIL
RGS	RIGID GALVANIZED STEEL
RUN	RUN CONTACTOR COIL
RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTO-TRANSFORMER
RVNR	REDUCED VOLTAGE NON-REVERSING
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SECT	SECTION
SEL SW	SELECTOR SWITCH
SEQ	SEQUENCE
SHLD	SHIELDED
SHT	SHEET
SIG	SIGNAL
S1, S2	START CONTACTOR COILS
SP	SPARE
SPDT	SINGLE POLE DOUBLE THROW
SPECS	SPECIFICATIONS
SP HTR	SPACE HEATER
SPST	SINGLE POLE SINGLE THROW
ST, SH	SHUNT TRIP
STA	STATION
STD	STANDARD
STL	STEEL
STR	STARTER
SV	SOLENOID VALVE
SW	SWITCH
SYS	SYSTEM
T	TRANSFORMER
TB	TERMINAL BOX
TC	TIME CLOCK
TACH	TACHOMETER
TEMP	TEMPERATURE
TERM	TERMINAL
TH	THERMOSTAT
TM	REPEAT CYCLE TIMER
TD	TIME DELAY RELAY
TR	TIMER
TS	TEMPERATURE SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
US	UNIT SUBSTATION
UST	UNIT SUBSTATION TRANSFORMER
V	VOLTAGE, VOLTS
VAR	VAR METER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE *(OTHER THAN VFD)*
VP	VAPORPROOF
VS	VARIABLE SPEED, VOLTMETER SWITCH
W	WATTS, WIRE
WHD	WATTHOUR DEMAND METER
WHM	WATTHOUR METER
WP	WEATHERPROOF
XD	TRANSDUCER
XFMR	TRANSFORMER
XMTR	TRANSMITTER

River Corridor Closure Contract — Dedicated to Safety Excellence

GENERAL NOTES

RACEWAY

1. ALL CONDUIT AND CABLE RUNS ARE SHOWN DIAGRAMMATICALLY AND THEY SHALL BE ROUTED TO SUIT FIELD CONDITIONS.
2. THE SUBCONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES OF ALL EQUIPMENT AGAINST SHOP DRAWINGS BEFORE STUBBING UP CONDUITS.
3. CONNECTION BETWEEN RIGID CONDUIT AND MOTOR TERMINAL BOX SHALL BE LIQUID TIGHT FLEXIBLE CONDUIT.
4. CONDUIT TERMINATING AT SWITCHBOARD, MOTOR CONTROL CENTER, POWER AND LIGHTING PANEL, CONTROL CABINET, ETC. SHALL BE EQUIPPED WITH GROUNDING BUSHING AND SHALL BE GROUNDED WITH NO. 6 GROUND WIRE.
5. INSTALL EXPANSION FITTINGS EVERY 200 FEET OF STRAIGHT RUN OF CONDUITS AND CABLE TRAYS.
6. CONDUIT FITTINGS AND SUPPORTS ARE NOT SHOWN ON THE DRAWINGS. THE SUBCONTRACTOR SHALL PROVIDE ALL FITTINGS AND SUPPORT REQUIRED TO SUIT THE CONDITIONS.
7. THE SUBCONTRACTOR SHALL LIMIT THE NUMBER OF BENDS TO (3)-90 DEGREES BETWEEN ALL POINTS.
8. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SLEEVES AND OPENINGS REQUIRED FOR THE PASSAGE OF ELECTRICAL RACEWAYS OR CABLES EVEN WHEN THESE OPENINGS OR SLEEVES ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
9. PROVIDE FLEXIBLE CONDUIT WHERE RIGID CONDUIT TERMINATES AT EQUIPMENT OR WHEN DEVICES ARE SUBJECT TO MOVEMENT FROM VIBRATION, EXPANSION OR CONTRACTION.
10. ALL UNDERGROUND CONDUIT RUNS SHALL BE WITH LONG RADIUS SWEEP BENDS. THE MINIMUM BENDING RADIUS SHALL BE 12 TIMES NOMINAL DIAMETER OF THE CONDUIT, AND NO FACTORY BENDS SHALL BE PERMITTED.
11. ALL UNDERGROUND CONDUITS NOT ENCASED IN CONCRETE SHALL BE PVC SCHEDULE 80, GALVANIZED, PVC COATED UNLESS OTHERWISE NOTED.
12. THE MINIMUM SIZE OF CONDUITS INSTALLED BELOW GRADE SHALL BE 25.4mm (1") UNLESS OTHERWISE NOTED.
13. THE MINIMUM SIZE OF CONDUIT INSTALLED ABOVE GRADE SHALL BE 19.05mm (3/4") UNLESS OTHERWISE NOTED.
14. ALL FLEXIBLE CONDUIT SHALL HAVE OUTER GROUNDING CONDUCTOR.
15. ALL SPARE OR UN-USED CONDUIT SHALL BE PROVIDED WITH A 3/8" NYLON PULL CORD.
16. ALL UNDERGROUND CONDUIT (EXCEPT SINGLE CONDUIT RUNS) SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE.

GROUNDING

1. ALL METALLIC STRUCTURES, METALLIC ENCLOSURES, AND ELECTRICAL EQUIPMENT, SUCH AS STRUCTURAL STEEL, METALLIC RACEWAY, FENCE, STAIR HANDRAILS, LIGHTING POLE, TANK, VESSELS, SWITCHING EQUIPMENT, PANEL, EQUIPMENT ENCLOSURE AND CABINETS GENERATOR, MOTOR, TRANSFORMER, SWITCHGEAR, ETC. SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED AND GROUND CONNECTION SHALL BE MADE TO THE PLANT GROUND GRID. THE GROUND CONDUCTOR SHALL BE SIZED PER N. E. C. UNLESS OTHERWISE SHOWN.
2. GROUNDING CONDUCTOR STUB-UP AND INSERT LOCATION ARE APPROXIMATE ONLY. THE SUBCONTRACTOR SHALL USE HIS BEST JUDGEMENT FOR CORRECT LOCATIONS IN FIELD.
3. ALL GROUND CONDUCTORS SHALL BE #4/0 SIZE UNLESS OTHERWISE NOTED.
4. ALL GROUND CONDUCTORS SHALL BE BARE, COPPER, STRANDED UNLESS OTHERWISE NOTED.
5. ALL GROUNDING CONDUCTORS SHALL BE MINIMUM OF 18" BELOW GRADE EXCEPT UNDER BUILDING SLAB WHEN THEY SHALL BE MINIMUM OF 6" BELOW SLAB.

WIRING

1. ALL WIRING SIZES SHALL BE AWG UNLESS OTHERWISE NOTED.

EQUIPMENT AND DEVICES

1. LOCATIONS OF EQUIPMENT, CONTROL DEVICES, INSTRUMENTS, BOXES, PANELS, ETC ARE APPROXIMATE ONLY, AND PROPER JUDGEMENT MUST BE EXERCIZED IN EXECUTING THE WORK TO INSURE THE BEST POSSIBLE INSTALLATION.
2. PACKAGE EQUIPMENT: SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE CONTRACTOR TO COODINATE THIS REQUIREMENT TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDES ALL NECESSARY ELECTRICAL INFORMATION FOR INCLUSION OF COSTS IN BID PACKAGE. ALL NECESSARY MATERIALS AND LABOR TO COMPLETE ELECTRICAL INSTALLATION SHALL BE PROVIDED WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL CODES AND STANDARDS PER SPEC. SECTIONS DIVISION 16.
3. ALL EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE SUBCONTRACTOR SHALL USE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD, ETC. FOR FINAL INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE CONTRACTOR.
4. SWITCHGEAR, SWITCHBOARD, MOTOR CONTROL CENTER AND ALL FREE STANDING PANELS SHALL BE SET ON CONCRETE PAD AND LEVELING CHANNELS EMBEDDED IN THE PAD UNLESS OTHERWISE NOTED.

SCHEMATIC DIAGRAMS

1. ALL CONTROLS ARE SHOWN DE-ENERGIZED IN ACCORDANCE WITH ANSI C37.2.
2. ALL CONTROL DIAGRAMS SHOW CONTROL FUNCTION ONLY. SUBCONTRACTOR SHALL INCORPORATE OTHER NECESSARY FUNCTIONS FOR PROPER OPERATIONS AND PROTECTION ON THE SYSTEM.
3. SLAVE RELAY SHALL BE ADDED WHERE REQUIRED TO PROVIDE ALL NECESSARY CONTACTS FOR THE SCHEMATIC DIAGRAMS SHOWN.
4. ALL DEVICES SHOWN ON MOTOR STARTER SCHEMATIC DIAGRAMS SHALL BE MOUNTED IN THE MOTOR STARTER CUBICLES UNLESS OTHERWISE NOTED.
5. ALL DEVICES SHOWN IN THE CONTROL PANEL OR CABINET SHALL BE MOUNTED IN THE CONTROL PANEL OR CABINET UNLESS OTHERWISE NOTED.
6. ALL MOTOR OPERATED VALVES ARE SHOWN FULLY OPEN.

MISCELLANEOUS

1. IN CASE OF INTERFERENCE BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND THE OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING AND THE CONTRACTOR SHALL REVIEW THE PROPOSED CHANGES BEFORE THEY ARE MADE.
2. ALL OUTDOOR DEVICES SHALL BE NEMA 4 RATED.
3. LOCATION OF MANHOLES AND PULLBOXES ARE APPROXIMATE. SUBCONTRACTOR SHALL COORDINATE EXACT LOCATION OF MANHOLES AND PULLBOXES WITH MECHANICAL AND CIVIL WORK.
4. SUBCONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES TO THOSE SHOWN WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION.
5. CIRCUITS OF DIFFERENT SERVICE VOLTAGE SHALL BE INSTALLED IN SEPARATE RACEWAYS, MANHOLES, HANDHOLES, PULLBOXES AND JUNCTION BOXES. THE VOLTAGE AND SERVICE LEVELS ARE:

(1) 12KV, 13.8KV
(2) 120V-480VOLT
(3) INSTRUMENTATION LESS THAN 50VDC
(4) TELEPHONE AND COMMUNICATIONS.

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15905 SHT01	600G	8802

NOTES

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 12322 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	BMA	JS			N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. — RICHLAND, WASHINGTON

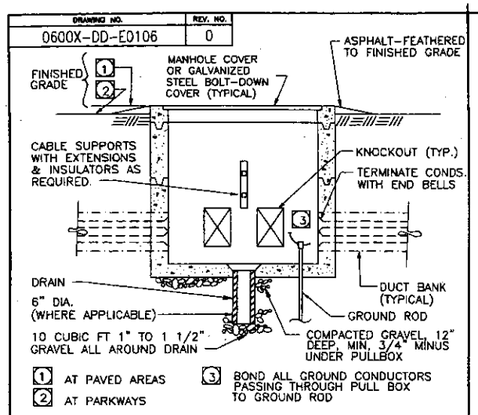
WEAVER BOOS CONSULTANTS, LLC. — DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL ABREVIATIONS AND GENERAL NOTES

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0105.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0105	0

DRAWING NO.	REV. NO.
0600X-DD-E0106	0



1 TYPICAL PULLBOX
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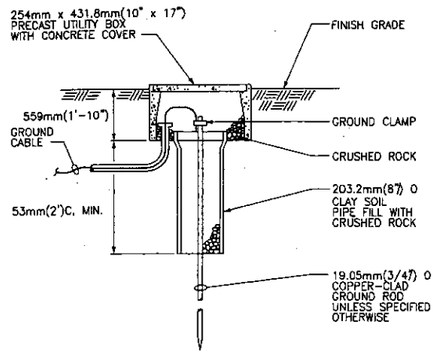
NTS



2 GROUND ROD AND WELL
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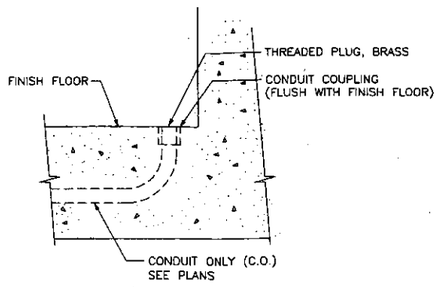
NTS



3 CONDUIT TERMINATION FOR FUTURE EQUIP
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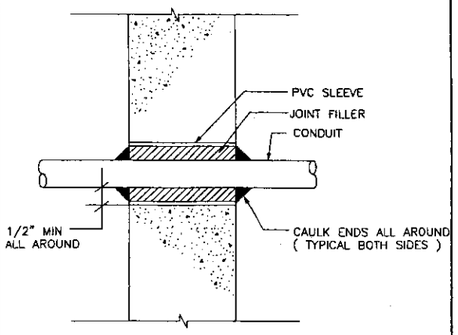
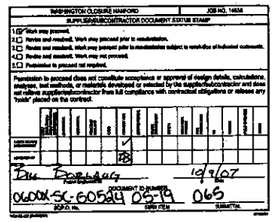
NTS



4 CONDUIT PENETRATION AT NEW WALL OR SLAB
0600X-DD-E0123
NTS

NOTES



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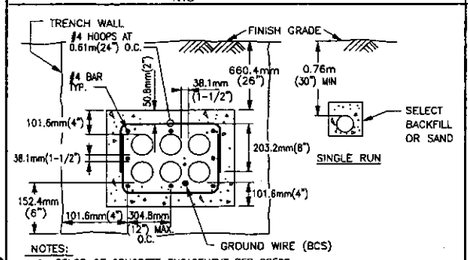
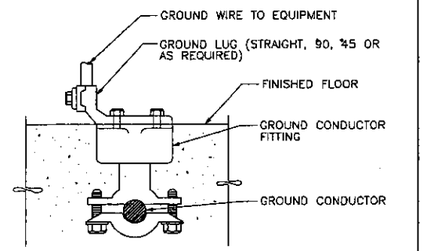


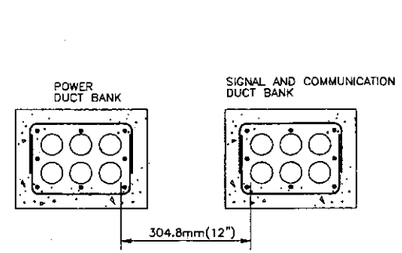
NOTES:
1. COLOR OF CONCRETE ENCASEMENT PER SPECS.
2. TRENCH FOR DUCT BANK SHALL BE MADE MIN. 50.8mm(2") WIDER ON EACH SIDE AND 50.8mm(2") DEEPER THAN DUCT BANK
3. ALL EARTH THAT FALLS BETWEEN AND BELOW CONDUIT WITHIN DUCT BANK AREA SHALL BE REMOVED BEFORE CONCRETE IS POURED AROUND DUCTS
4. SUPPORT CONDUIT AT BOTTOM OF TRENCH ON 152.4mm(6") BLOCK TO ALLOW POURED CONCRETE TO FULLY ENCASE CONDUIT AND REBAR
5. PROVIDE REBAR ONLY WHERE DUCTS ROUTE UNDER ROAD, HEAVY WORK AREA OR AS DEFINED
6. NUMBER OF CONDUITS IN DUCT BANK VARIES; GROUND WIRES ARE NOT REQUIRED FOR ALL DUCT BANKS. SEE DUCT BANK SCHEDULE.

5 TYPICAL DUCT BANK
0600X-DD-E0110, E0111, E0112
NTS

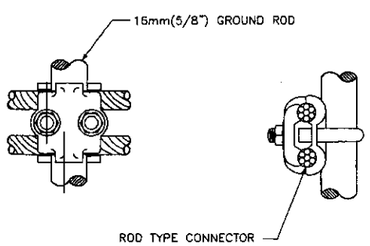


NOTE:
BOLTS SHALL BE INSERTED IN BOLT HOLES BEFORE CONNECTOR IS EMBEDDED.

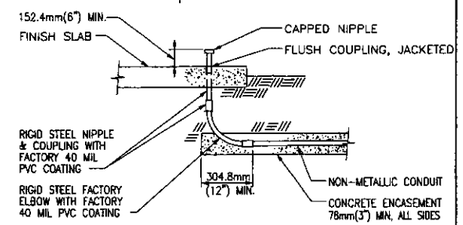
6 GROUNDING INSERT
0600X-DD-E0124
NTS



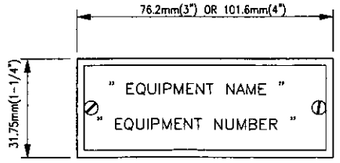
7 DUCT BANK SPACING
0600X-DD-E0111, E0110
NTS



10 CABLE TO ROD CONNECTION
0600X-DD-E0124
NTS



9 CONDUIT PLACEMENT
0600X-DD-E0107
NTS



NOTES
1. ALL LETTERS TO BE 6.35mm(1/4") UNLESS NOTED OTHERWISE.
2. ALL NAMEPLATES TO BE MOUNTED ON THE VERTICAL CENTERLINE OF THE CUBICAL OR DEVICE.
3. ATTACH ALL NAMEPLATES WITH STAINLESS STEEL SCREWS.
4. PROVIDE BLANK NAMEPLATES FOR ALL SPARE AND FUTURE DEVICES.

11 NAMEPLATE
0600X-DD-E0116
NTS

River Corridor Closure Contract
Dedicated to Safety Excellence

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RAYMOND E. MERRIAM — STATE OF WASHINGTON — 12022 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG ENGR	CHK'R CHK	SYS ENGR	PROJ ENGR
0	9/12/07	ISSUED FOR CONSTRUCTION	BLR	JSP			N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

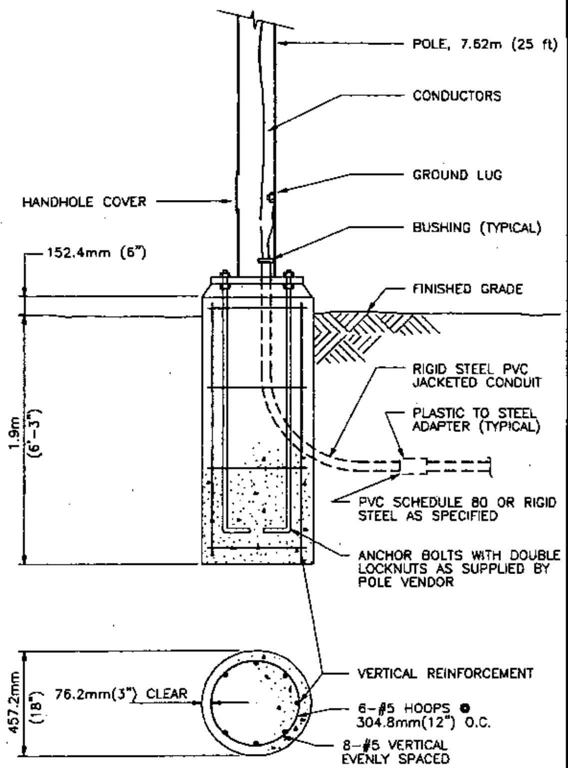
ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL DETAILS - 1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	5XDE0106.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0106	0

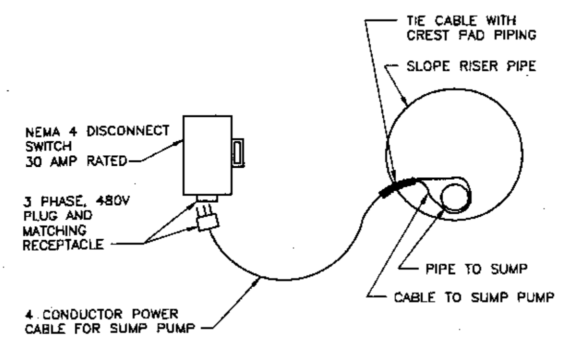
RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15906 SHT01	600G	7301

DRAWING NO.	REV. NO.
0600X-DD-E0107	0



(12) UNDERGROUND CONDUIT TO LIGHT POLE

0600X-DD-E0117 (TYPICAL FOR CREST PAD BLDGS)
NTS

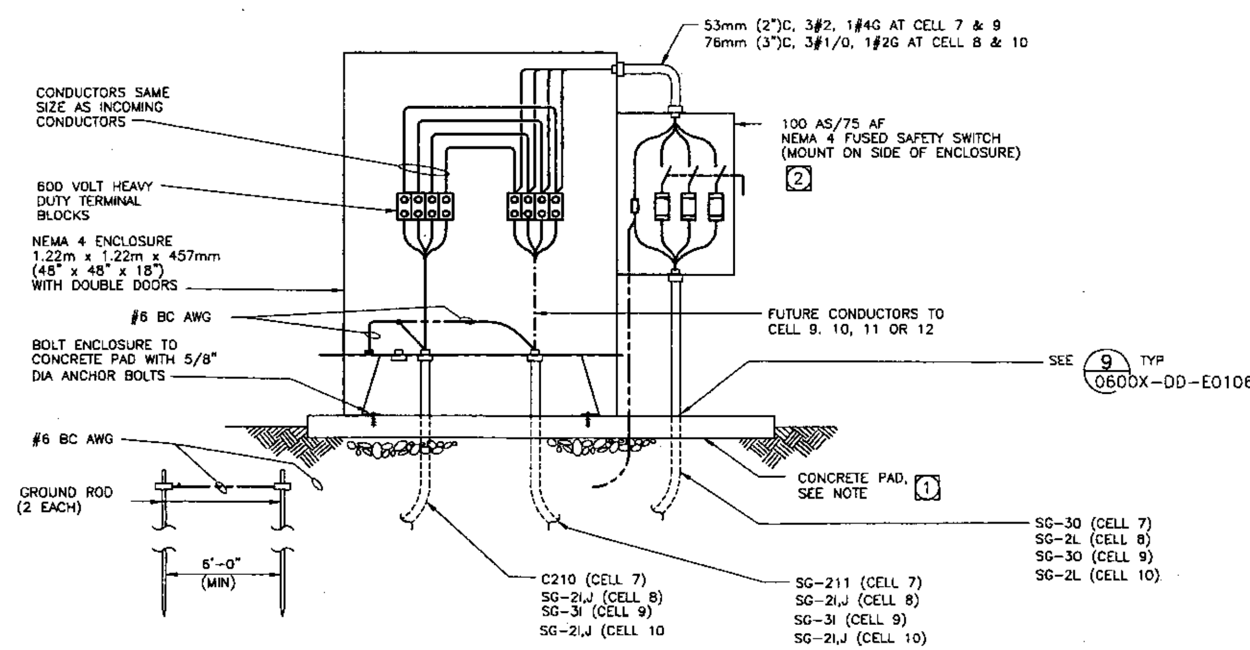


NOTES:

1. TRANSDUCER CABLE CONNECTION SIMILAR WITHOUT DISCONNECT.
2. ATTACH WIRE MESH CABLE SUPPORT GRIP NEAR OUTSIDE END OF RISER PIPE.
3. PLUGS AND RECEPTACLES SHALL BE HEAVY DUTY, THREADED CONNECTING, WEATHERPROOF PIN AND SLEEVE TYPE CONNECTORS.
4. PROVIDE ENGRAVE NAMEPLATE ON FRONT OF DISCONNECT SWITCH, TO READ "HIGH VOLTAGE ~ DO NOT UNPLUG".
5. INSTALLATION SHALL MATCH PREVIOUS CREST PAD NO.5 WORK FIELD VERIFY AT SITE.
6. DISCONNECT SHALL BE HUBBELL #HBLMITL WITH INTERNAL RECEPTACLE #HBL2730SW OR EQUAL
7. PLUG SHALL BE HUBBELL #HBL2731 OR EQUAL.

(13) TRENCH PUMP CABLE SUPPORT AND TERMINATION

0600X-DD-E0123
NTS



(14) LOOP FEED ENCLOSURE 7, 8, 9, 10

0600X-DD-E0111, 0600X-DD-E0112
0600X-DD-E0113
NTS
(COMPONENTS TYPICAL UNLESS NOTED)

River Corridor Closure Contract
Dedicated to Safety Excellence

RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15907 SHT01	600G	7301

NOTES

1. FOR LOOP FEED ENCLOSURE CONCRETE PAD DETAILS, SEE STRUCTURAL DETAIL (5) 0600X-DD-C0317
2. PROVIDE AND INSTALL ENGRAVED NAMEPLATE. TO READ: "DISCONNECT FOR MCC-T7"; ADJUST ACCORDINGLY FOR CELLS 8, 9, 10. MOUNT TO FRONT FACE OF DISCONNECT.

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP
10/9/07
0600X-SC-G0524 05-19 066
500X524A00

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DOCUMENT CONTROL mac 10/11/07

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RAYMOND E. MERKMAN — STATE OF WASHINGTON — 12362 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/CHK'D	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION				N/A		

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC.
DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL DETAILS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0107.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0107	0

DRAWING NO.	REV. NO.
0600X-DD-E0109	0

RACEWAY AND CABLE SCHEDULE (CELLS 7 & 8)

CONDUIT NO.	CONDUCTORS	CONDUIT NO.	CONDUIT SIZE	FUNCTION	FROM	TO	ROUTE	REMARKS	
C150	3#12, 1#12 GRD	1	53mm(2")	480V POWER	CELL NO.7 – MCC-T7	PB-PTN9	UNDERGROUND	CELL NO.7 CREST PAD BLDG, (TO C151)	
C151	3#12, 1#12 GRD	1	53mm(2")	480V POWER	PB-PTN9	MH-30 (MOV, 2-V-19)	UNDERGROUND	CELL NO.7 CREST PAD BLDG, (TO C150)	
C152	6#12, 1#12 GRD, 1-4PR #16 SHLD	1	53mm(2")	SIGNAL	TRENCH PUMP CONTROL PANEL	PB-STN9	UNDERGROUND	CELL NO.7 CREST PAD BLDGL, (TO C205)	
C153	4#12, 1#12 GRD	1	53mm(2")	SIGNAL	MOV 2-V-19, FLOOD SWITCH	PB-STN9	UNDERGROUND	MANHOLE MH-30, (TOC205)	
C156	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.7	PB-PTN9	UNDERGROUND	WITH PULLCORD	
C157	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.7	PB-PTN9	UNDERGROUND	WITH PULLCORD	
C158	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.7	PB-STN9	UNDERGROUND	WITH PULLCORD	
C159	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.7	PB-STN9	UNDERGROUND	WITH PULLCORD	
C160	3#12, 1#12 GRD	1	27mm(1")	480V POWER	CELL NO.8 – MCC-T8	PB-PTS9	UNDERGROUND	CELL NO.8 CREST PAD BLDG, (TO C161)	
C161	3#12, 1#12 GRD	1	53mm(2")	480V POWER	PB-PTS9	MH-31 (MOV, 2-V-20)	UNDERGROUND	CELL NO.8 CREST PAD BLDG, (TO C160)	
C162	6#12, 1#12 GRD, 1-4PR #16 SHLD	1	53mm(2")	SIGNAL	TRENCH PUMP CONTROL PANEL	PB-STS9	UNDERGROUND	CELL NO.8 CREST PAD BLDG, (TO C206)	
C163	4#12, 1#12 GRD	1	53mm(2")	SIGNAL	MOV 2-V-20, FLOOD SWITCH	PB-STS9	UNDERGROUND	MANHOLE MH-31, (TO C206)	
C166	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.8	PB-PTS9	UNDERGROUND	WITH PULLCORD	
C167	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.8	PB-PTS9	UNDERGROUND	WITH PULLCORD	
C168	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.8	PB-STS9	UNDERGROUND	WITH PULLCORD	
C169	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.8	PB-STS9	UNDERGROUND	WITH PULLCORD	
C205	2-(10#12,1#12GRD,1-4PR #16 SHLD)	3	53mm(2"), 1 SPARE	SIGNAL	PB-STN9	LEACHATE PUMP STATION	UNDERGROUND	USE SPARE CONDUIT SPACE FROM PB-STN7 TO LEACHATE PUMP STATION(CELL 7&9 -C152 & C153)	3
C206	2-(10#12,1#12GRD,1-4PR #16 SHLD)	3	53mm(2"), 1 SPARE	SIGNAL	PB-STS9	LEACHATE PUMP STATION	UNDERGROUND	USE SPARE CONDUIT SPACE FROM PB-STS7 TO LEACHATE PUMP STATION(CELL 8&10-C162 & C163)	3
C209	3#1, 1#8GRD	1	53mm(2")	480V POWER	SUBSTATION #2, MDP #2	PB-PTNX	UNDERGROUND	(TO SG-3I, J-N)	
C210	3#1, 1#8GRD	1	53mm(2")	480V POWER	PB-PTN9	CELL NO. 7, LOOP FEED ENCLOSURE	UNDERGROUND		
C211	3#1, 1#8GRD	1	53mm(2")	480V POWER	CELL NO. 7, LOOP FEED ENCLOSURE	PB-PTN9	UNDERGROUND		
SG-3I	3#1, 1#8GRD	1	103MM(4")	480V POWER	PB-PTNX [(E) TO PB-PTN8]	PB-PTN9	UNDERGROUND	VIA: PB-PTN8(EXISTING)	
SG-3J-N	EMPTY (SPARES)	5	103mm(4")	480V POWER	PB-PTNX [(E) TO PB-PTN8]	PB-PTS9	UNDERGROUND	VIA: PB-PTN8(EXISTING) WITH PULLCORDS	
SG-3O	3#2, 1#8 GRD	1	53mm(2")	480V POWER	CELL 7, LOOP FEED ENCLOSURE	MCC-T7	UNDERGROUND		
SG-2I,J,K	2-(3-250KCMIL, 1#2GRD)	3	78mm(3"), 1 SPARE	480V POWER	PB-PTS7	PB-PTS9	UNDERGROUND	VIA: PB-PTS8, LOOP FEED ENCLOSURE #8 (NOT SPARE CONDUIT)	
SG-2G,H	2-(3-250KCMIL, 1#2GRD)	2(E)	103mm(4")	480V POWER	LEACHATE 480V SWGR, BKR #8	PB-PTS7	UNDERGROUND	VIA:PB-PN1,PB-PW1,PB-PW3, PB-PTS1, PB-PTS6, USE VARIOUS SIZE CONDUITS (2"-4")	
SG-2L	3#1/0, 1#2 GRD	1	78mm(3")	480V POWER	CELL NO. 8, LOOP FEED ENCLOSURE	MCC-T8	UNDERGROUND	FROM FUSED DISCONNECT SWITCH	

DUCT BANK SCHEDULE (SOUTH)

SECTION	NEW POWER CONDUIT NUMBERS	NEW SIGNAL CONDUIT NUMBERS
TS8 1	SG-2I, SG-2J, SG-2K	C-206

DUCT BANK SCHEDULE (NORTH)

SECTION	NEW POWER CONDUIT NUMBERS	NEW SIGNAL CONDUIT NUMBERS
TN8 1	SG-3I, SG-3J, SG-3K, SG-3L, SG-3M, SG-3N,	C-205

NOTES

1. DUCT BANK CONDUITS TO BE CONCRETE ENCASED SEE 5 / 0600X-DD-E0106 AND 7 / 0600X-DD-E0106
2. EXISTING CONDUITS (E); CONDUIT REF. DWG # 0600X-DD-E0076.
3. THE SPARE CABLE SETS IN C205 AND C206 AT PB-STN9 AND PB-STS9 FOR CELLS 9 AND 10 SHALL BE TERMINATED IN AN ENCLOSURE ON TERMINAL BLOCKS LOCATED IN THE PULL BOXES. PULL BOXES SHALL BE SIZED TO FACILITATE TERMINATION AND EXTENSION FOR CELLS 9 AND 10.

0600X-SC-E0524 05-19 067

500X524A00

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RAYMOND E. MERRIMAN, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION
0	9/28/07	ISSUED FOR CONSTRUCTION

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 – 10
ELECTRICAL CABLE AND RACEWAY SCHEDULE

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0109.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0109	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15909 SHT01	600G	7305

River Corridor Closure Contract — Dedicated to Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-E0110	0

RACEWAY AND CABLE SCHEDULE (CELLS 9 & 10)

CONDUIT NO.	CONDUCTORS	CONDUIT NO.	CONDUIT SIZE	FUNCTION	FROM	TO	ROUTE	REMARKS
C150	3#12, 1#12 GRD	1	53mm(2")	480V POWER	CELL NO.9 – MCC-T9	PB-PTN11	UNDERGROUND	CELL NO.9 CREST PAD BLDG (TO C151)
C151	3#12, 1#12 GRD	1	53mm(2")	480V POWER	PB-PTN11	MH-32 (MOV, 2-V-21)	UNDERGROUND	CELL NO.9 CREST PAD BLDG (TO C150)
C152	6#12, 1#12 GRD, 1-4PR #16 SHLD	1	53mm(2")	SIGNAL	TRENCH PUMP CONTROL PANEL	PB-STN11	UNDERGROUND	CELL NO.9 CREST PAD BLDG (TO C205)
C153	4#12, 1#12 GRD	1	53mm(2")	SIGNAL	MOV 2-V-21, FLOOD SWITCH	PB-STN11	UNDERGROUND	MANHOLE MH-32 (TO C205)
C156	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.9	PB-PTN11	UNDERGROUND	WITH PULLCORD
C157	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.9	PB-PTN11	UNDERGROUND	WITH PULLCORD
C158	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.9	PB-STN11	UNDERGROUND	WITH PULLCORD
C159	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.9	PB-STN11	UNDERGROUND	WITH PULLCORD
C160	3#12, 1#12 GRD	1	27mm(1")	480V POWER	CELL NO.9 – MCC-T9	PB-PTS11	UNDERGROUND	CELL NO.10 CREST PAD BLDG (TO C161)
C161	3#12, 1#12 GRD	1	53mm(2")	480V POWER	PB-PTS11	MH-33 (MOV, 2-V-22	UNDERGROUND	CELL NO.10 CREST PAD BLDG (TO C160)
C162	6#12, 1#12 GRD, 1-4PR #16 SHLD	1	53mm(2")	SIGNAL	TRENCH PUMP CONTROL PANEL	PB-STS11	UNDERGROUND	CELL NO.10 CREST PAD BLDG (TO C206)
C163	4#12, 1#12 GRD	1	53mm(2")	SIGNAL	MOV 2-V-18, FLOOD SWITCH	PB-STS11	UNDERGROUND	MANHOLE MH-33 (TO C206)
C164	10#12, 1#12 GRD, 1-4PR #16 SHLD	1	53mm(2")	SIGNAL	PB-STS11	PB-STS10, PB-STS9	UNDERGROUND	
C165	10#12, 1#12 GRD, 1-4PR #16 SHLD	—	EXISTING	SIGNAL	EXST PB-STS9	LEACHATE PUMP STATION	UNDERGROUND	USE SPARE CONDUIT FROM PB-STS9
C166	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.10	PB-PTS11	UNDERGROUND	WITH PULLCORD
C167	EMPTY (SPARE)	1	53mm(2")	POWER	CREST PAD BLDG NO.10	PB-PTS11	UNDERGROUND	WITH PULLCORD
C168	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.10	PB-STS11	UNDERGROUND	WITH PULLCORD
C169	EMPTY (SPARE)	1	53mm(2")	SIGNAL	CREST PAD BLDG NO.10	PB-STS11	UNDERGROUND	WITH PULLCORD
C205	10#12, 1#12 GRD, 1-4PR #16 SHLD	3	53mm(2")	SIGNAL	PB-STN11	PB-STN10, PB-STN9	UNDERGROUND	2 SPARE CONDUITS WITH PULLCORD (2)
C206	10#12, 1#12 GRD, 1-4PR #16 SHLD	3	53mm(2")	SIGNAL	PB-STS11	PB-STS10, PB-STS9	UNDERGROUND	2 SPARE CONDUITS WITH PULLCORD (2)
SG-2I,J	2-(3-250KCMIL, 1#2GRD)	2	78mm(3")	480V POWER	PB-PTS9	PB-PTS11	UNDERGROUND	VIA: PB-PTS10, LOOP FEED ENCLOSURE CELL NO 9
SG-2K	EMPTY (SPARE)	1	78mm(3")	480V POWER	PB-PTS9	PB-PTS11	UNDERGROUND	WITH PULLCORD
SG-2L	3-#1/0, 1#2GRD	1	78mm(3")	480V POWER	LOOP FEED ENCLOSURE CELL NO. 10	PB-PTS11	UNDERGROUND	
SG-3I	3#1, 1#8GRD	1	78mm(3")	480V POWER	PB-PTN9	PB-PTN11	UNDERGROUND	VIA: PB-PTN10, LOOP FEED ENCLOSURE CELL NO 10
SG-3J-L	EMPTY (SPARE)	1	78mm(3")	480V POWER	PB-PTN9	PB-PTN11	UNDERGROUND	WITH PULLCORD VIA: PB-PTN10
SG-30	3#2,1#8GRD	1	78mm(2")	480V POWER	LOOP FEED ENCLOSURE CELL NO. 9	MCC-T9	UNDERGROUND	

DUCT BANK SCHEDULE (SOUTH)

SECTION	NEW POWER CONDUIT NUMBERS	NEW SIGNAL CONDUIT NUMBERS
TS9 (1)	SG-2I, SG-2J, SG-2K	C-206

DUCT BANK SCHEDULE (NORTH)

SECTION	NEW POWER CONDUIT NUMBERS	NEW SIGNAL CONDUIT NUMBERS
TN9 (1)	SG-3I, SG-3J, SG-3K, SG-3L	C-205

NOTES

1. DUCT BANK CONDUITS TO BE CONCRETE ENCASED SEE (5) 0600X-DD-E0106 AND (7) 0600X-DD-E0106
2. SEE (3) 0600X-DD-E0109

WASHINGTON CLOSURE HANFORD — SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

Bill Forney 10/9/07

0600X-SC-G0524 05-19 068

500X524 R00

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DOCUMENT CONTROL MC 10/11/07

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 32322 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION					N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL CABLE AND RACEWAY SCHEDULE

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0110.DWG

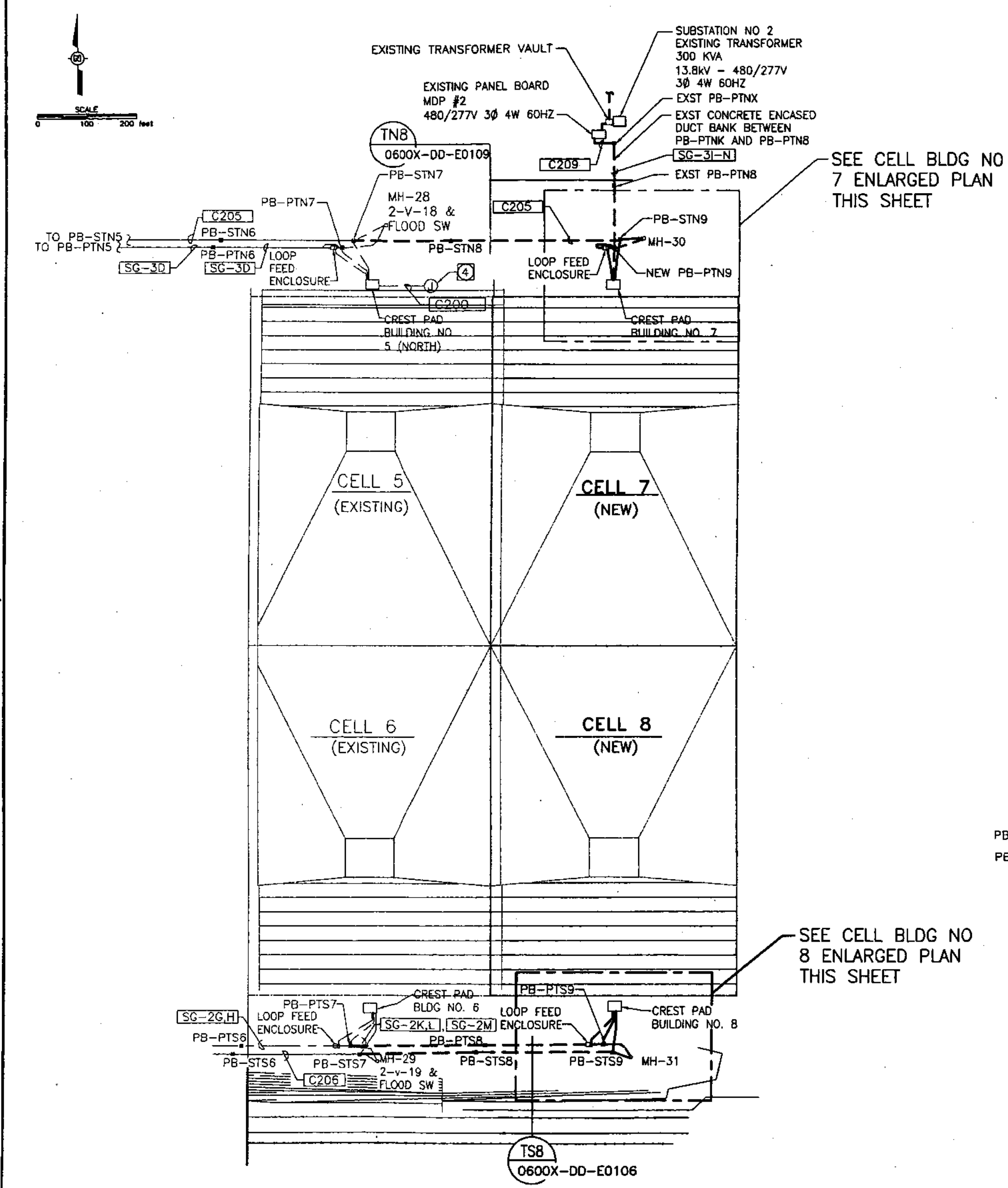
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0110	0

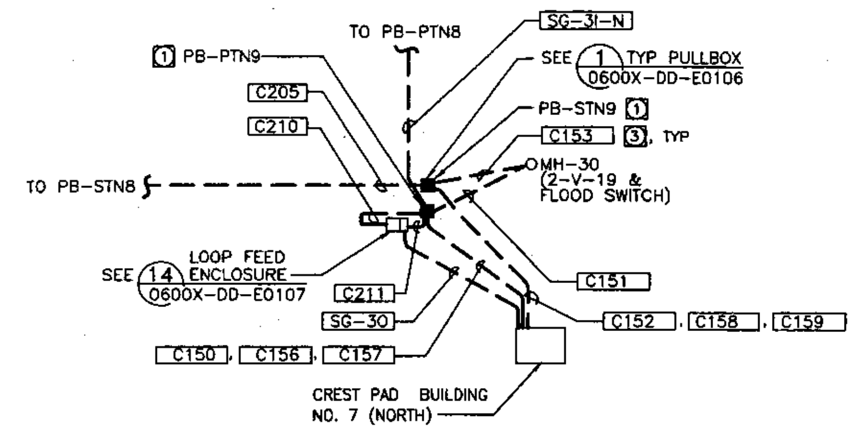
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15910 SHT01	600G	7305

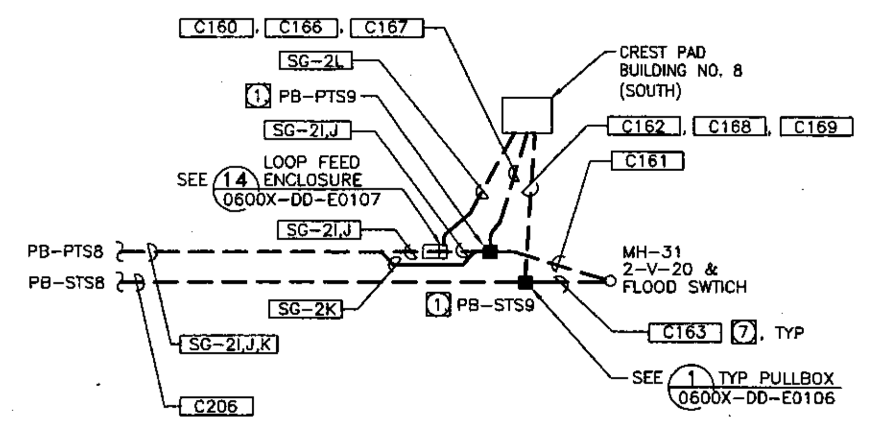
River Corridor Closure Contract — Dedicated to Safety Excellence — WCH

DRAWING NO.	REV. NO.
0600X-DD-E0111	0





CELL BLDG NO 7 ENLARGED PLAN
NTS



CELL BLDG NO 8 ENLARGED PLAN
NTS

LEGEND	
- - - - -	EXISTING
———	NEW

NOTES

1. ALL PULL BOXES SHALL BE 30" W x 48" L x 40" D (INSIDE DIMENSIONS) UNLESS OTHERWISE NOTED. SEE NOTE 3 ON DWG 0600X-DD-E0109.
2. ALL DUCT BANK CONDUITS TO BE CONCRETE ENCASED UNLESS SPECIFIED OTHERWISE. SEE DETAIL 5 0600X-DD-E0106 AND 7 0600X-DD-E0106
3. SEE DWG 0600X-DD-E0109 FOR RACEWAY AND CABLE SCHEDULE.
4. COORDINATE NEW DUCT BANKS W/NEW YARD PIPING. DUCT ROUTING SHALL MATCH PREVIOUS CELL NO. 5 ROUTING.
5. WHERE NECESSARY TO PULL NEW I & C WIRES IN MH OR PB CONDUITS, WITH EXISTING WIRES, PULL EXISTING WIRES OUT OF CONDUIT AND REPULL WITH THE NEW WIRES WHERE NECESSARY. TO CUT WIRES IN MH OR PB, THE WIRES SHALL BE TERMINATED IN A WEATHER PROOF ENCLOSURE AND TERMINATED ON BLOCKS.
6. RELOCATE 480V #10 CIRCUIT OR SMALLER TO ADJACENT DUCT BANK CONDUITS WHERE NECESSARY TO CLEAR CONDUIT FOR POWER CIRCUIT TO CELL 8.
7. SEE DWG 0600X-DD-E0110 FOR RACEWAY AND CABLE SCHEDULES

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/DSGN	CHK'D CHK	SYS ENG'R	PROJ ENG'R
0	9/12/07	ISSUED FOR CONSTRUCTION						

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL SITE PLAN - CELL 7 & 8

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0111.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0111	0

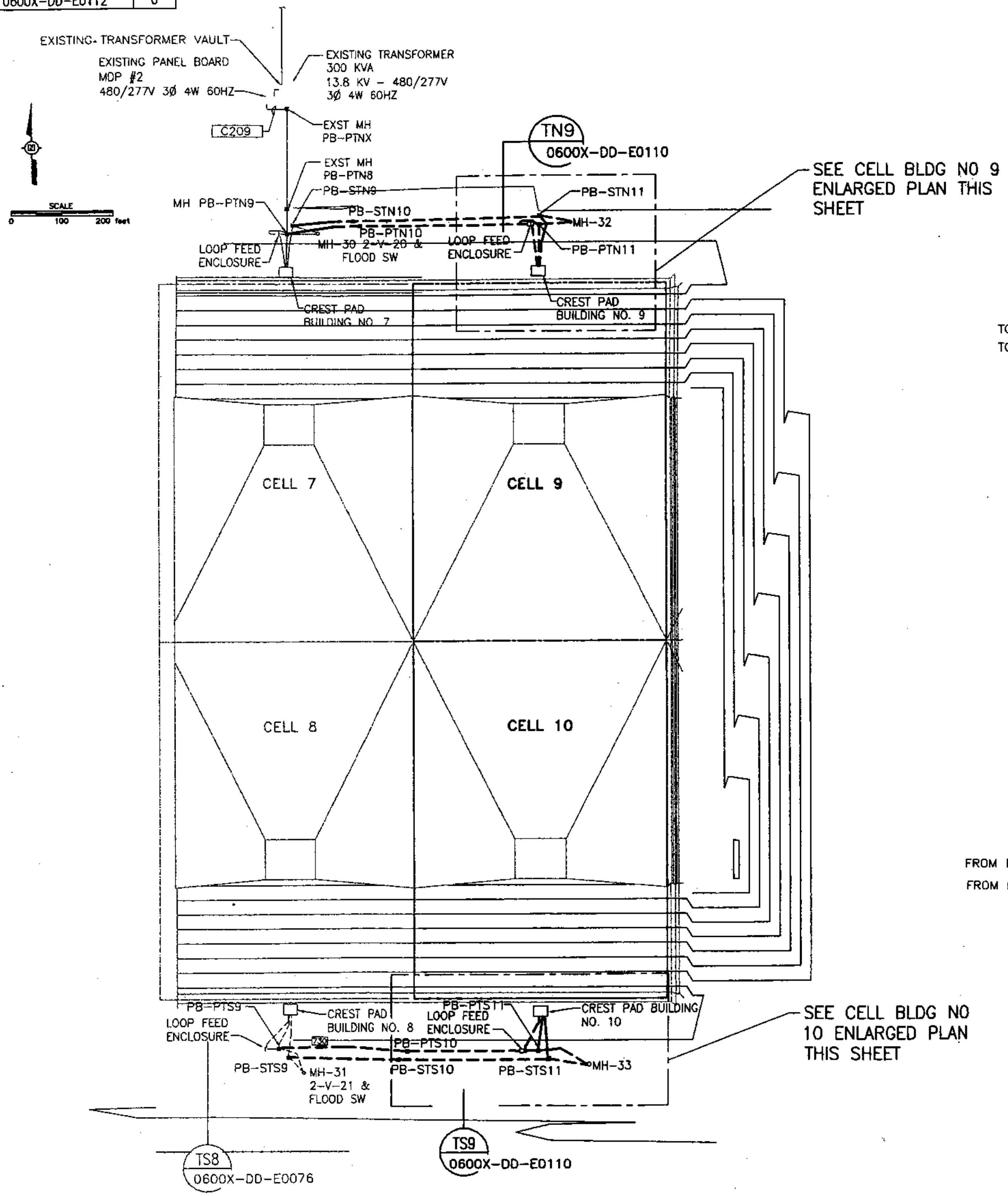
DOCUMENT CONTROL mlc 10/11/07

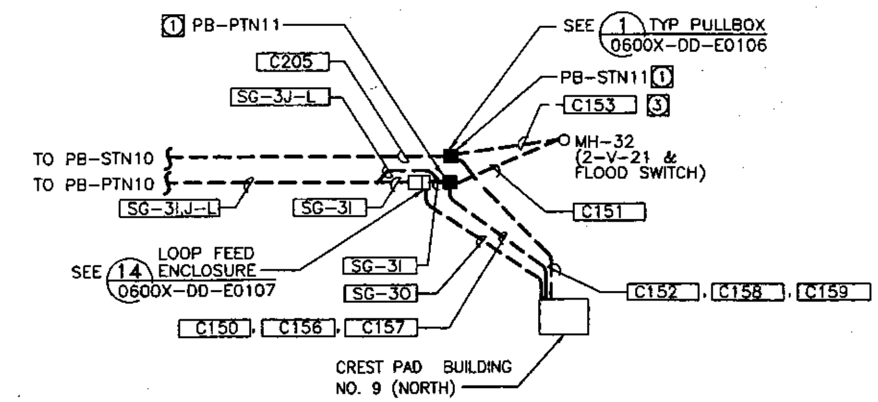
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15911 SHT01	600G	7301

River Corridor Closure Contract — Dedicated to Safety Excellence

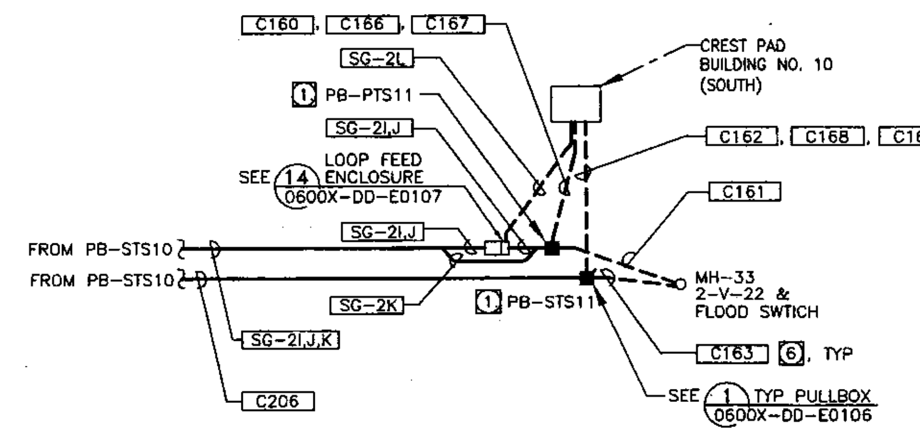
DRAWING NO.	REV. NO.
0600X-DD-E0112	0





CELL BLDG NO 9 ENLARGED PLAN

NTS



CELL BLDG NO 10 ENLARGED PLAN

NTS

LEGEND

- ——— EXISTING
- ——— NEW

NOTES

1. ALL PULL BOXES SHALL BE 30" W x 48" L x 40" D (INSIDE DIMENSIONS) UNLESS OTHERWISE NOTED
2. ALL DUCT BANK CONDUITS TO BE CONCRETE ENCASED UNLESS SPECIFIED OTHERWISE. SEE DETAIL 5 0600X-DD-E0106 AND 7 0600X-DD-E0106
3. SEE DWG 0600X-DD-E0109 FOR CONDUIT/CONDUCTORS SIZES.
4. COORDINATE NEW DUCT BANKS W/NEW YARD PIPING. DUCT ROUTING SHALL MATCH PREVIOUS CELL NO. 5 ROUTING.
5. MATERIAL AND INSTALLATION EAST OF PB-STN9, PB-PTN9, PB-STS9 AND PB-PTS9 SHALL NOT BE PROVIDED UNLESS SPECIFICALLY DIRECTED TO PERFORM CELL 9 AND 10 WORK.

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REV.	DATE	DESCRIPTION
0	9/26/07	ISSUED FOR CONSTRUCTION

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON — **WEAVER BOOS CONSULTANTS, LLC.** DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL SITE PLAN - CELL 9 & 10

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0112.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0112	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15912 SHT01	600G	7301

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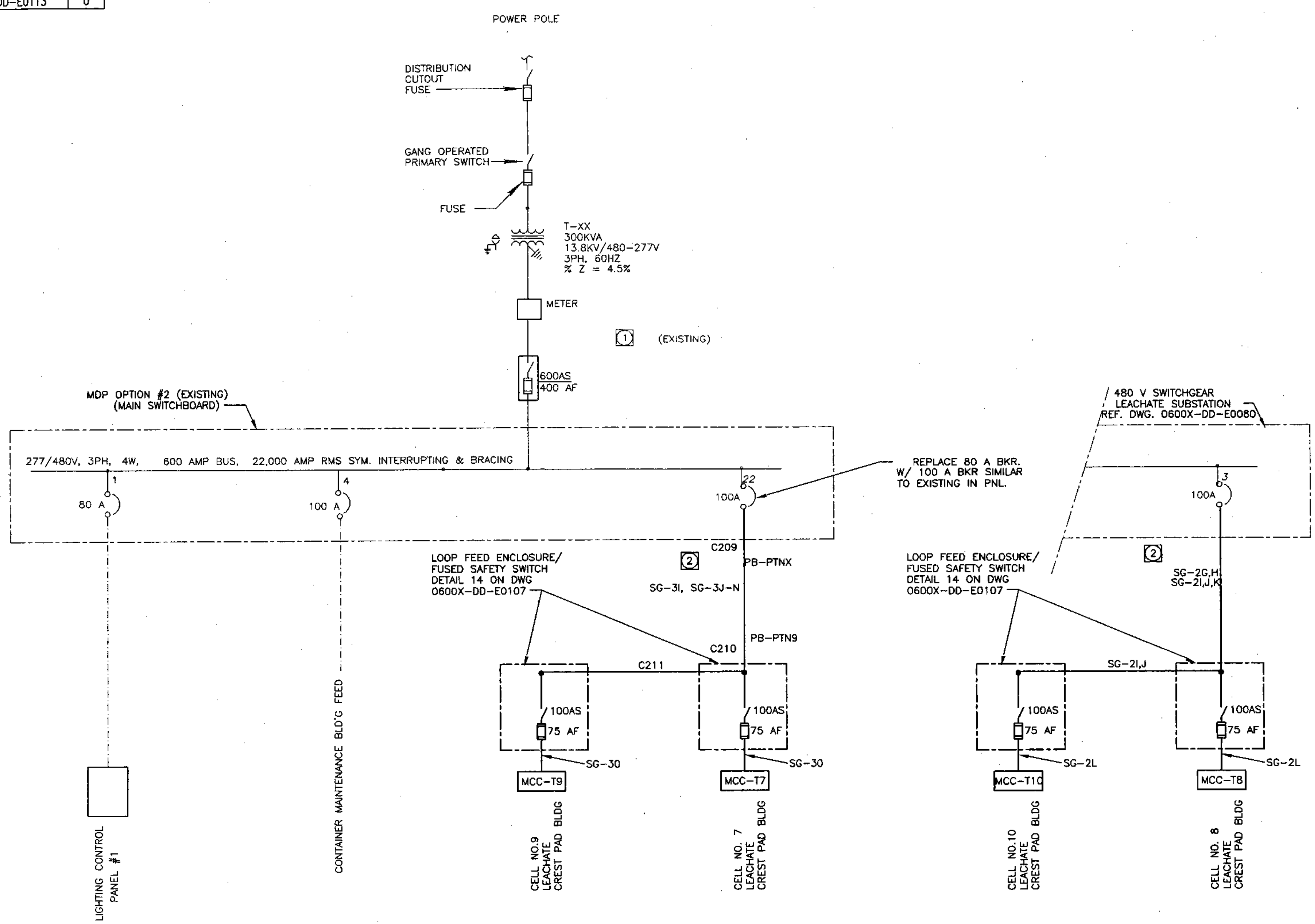
DRAWING NO.	REV. NO.
0600X-DD-E0113	0



NOTES

1. SEE DWG. 0600X-DD-E0101 FOR UTILITY TO PANEL MDP OPTION #2 DETAILS.

2. SEE DWG 0600X-DD-E0109 AND -E0110 FOR FACILITY RACEWAY AND CABLE SCHEDULE.

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 12322 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK'D	DSGN/ CHK'D	CHK'D	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION						

SCALE: NA

U.S. DEPARTMENT OF ENERGY

DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL ONE-LINE SWITCHGEAR

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0113.DWG

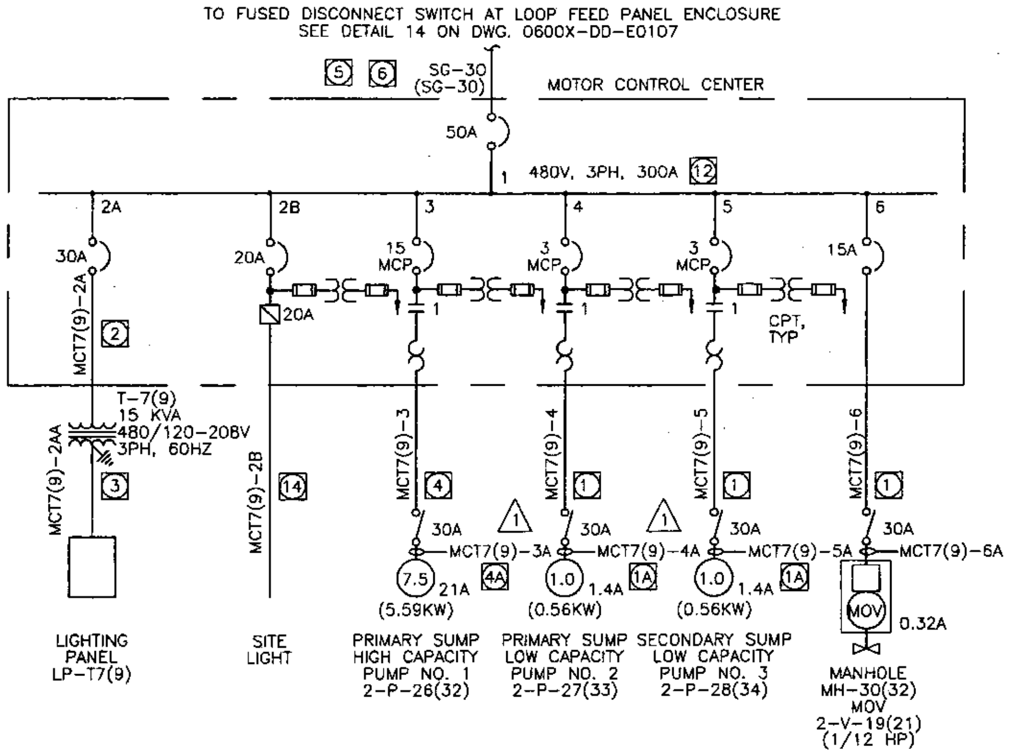
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0113	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15913 SHT01	600G	7201

River Corridor Closure Contract — Dedicated to Safety Excellence

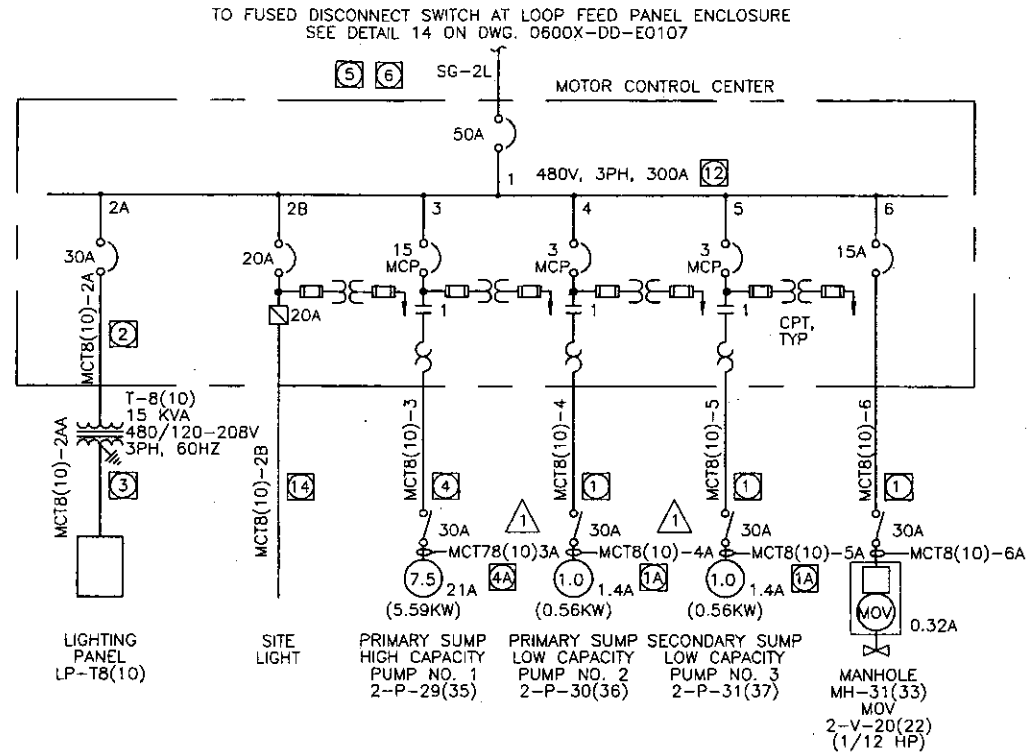
DRAWING NO.	REV. NO.
0600X-DD-E0114	0



TRENCH CELL 7(9) ONE LINE DIAGRAM

MOTOR CONTROL CENTER MCC-T7(9)

(SEE ELEVATION ON DWG 0600X-DD-E0116



TRENCH CELL 8(10) ONE LINE DIAGRAM

MOTOR CONTROL CENTER MCC-T8(10)

(SEE ELEVATION ON DWG 0600X-DD-E0116

NOTES

1. 25.4mm (1") MIN
2. 21mm (3/4"C), 3#10, 1#10G
3. 27mm (1") C, 4#6, 1#8G
4. 27mm (1") C, 3#10, 1#10G
5. VALUE IN ( ) INDICATES VALUE ASSOCIATED WITH CELL 9 OR 10.
6. SEE DWG 0600X-DD-E0109 AND 0600X-DD-E0110 FOR RACEWAY AND CABLE SIZE.
12. 42,000 AMP MINIMUM RMS SHORT CIRCUIT RATING. BREAKERS TO HAVE 25,000 AMP MINIMUM INTERRUPTING CAPACITY
14. SEE DRAWING 0600X-DD-E0124 FOR CONDUIT AND CONDUCTORS TO LIGHT POLE
1A. 4 # 12AWG. VENDOR SUPPLIED
4A. 4 # 12AWG. VENDOR SUPPLIED

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RAYMOND E. MERRIAM, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER 12322, EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION		JD			NA	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
MCC ONE-LINE DIAGRAMS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0114.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0114	0

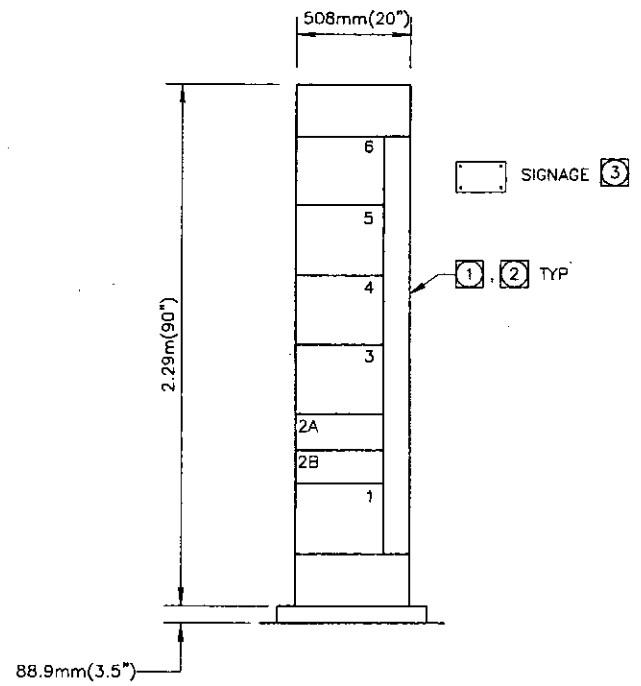
RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15914 SHT01	6000	7201

DRAWING NO.	REV. NO.
0600X-DD-E0116	0

NOTES

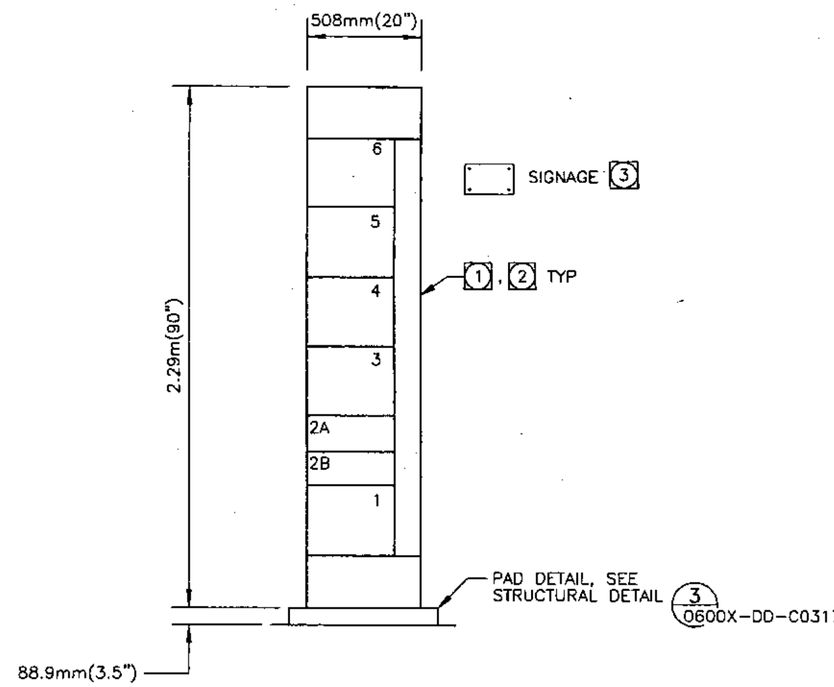
1. FOR TYPICAL NAMEPLATE DETAIL SEE (11 / 0600X-DD-E0106)
2. CONTRACTOR SHALL PROVIDE ARRANGEMENT OF CUBICLES IN NEW MCC IDENTICAL TO EXISTING MCC INSTALLED AT PREVIOUS CELLS 5 AND 6. FIELD VERIFY AT SITE. MCC MANUFACTURER SHALL MATCH CELL 5.
3. PROVIDE AND INSTALL SIGNAGE TO MATCH EXISTING CELLS 5. FIELD VERIFY AT SITE. SIGNAGE TO READ: "SERVICE DISCONNECT FOR THIS BUILDING LOCATED 100 FT NORTH (OR SOUTH) AND IS LABELED DISCONNECT FOR MCC-T7(9) (OR MCC-T8(10))". ACCORDINGLY.
4. VALUE IN ( ) INDICATES VALUE ASSOCIATED WITH CELL 9 OR 10.



FRONT ELEVATION

MOTOR CONTROL CENTER MCC-T7 (9)

(TRENCH CELL 7(9) CREST PAD BUILDING)



FRONT ELEVATION

MOTOR CONTROL CENTER MCC-T8 (10)

(TRENCH CELL 8 (10) CREST PAD BUILDING)

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION					N/A	

SCALE: NTS

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. — RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. — DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
MCC DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0116.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0116	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15916 SHT01	600G	7301

River Corridor Closure Contract — Dedicated to Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-E0117	0

208-120 VOLTS 3 Φ 4 W — 50 AMP MAIN BREAKER — PANELBOARD LP-T7 — LOCATION LEACHATE CELL 7 CREST PAD BUILDING — FEED TOP — MTG SURFACE

LOAD DESCRIPTION	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LTG	REC	MIS	CIR	BKR	BKR	CIR	MIS	REC	LTG	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LOAD DESCRIPTION
METER ROOM LIGHTS	630			9			1	20	20	2	1			400			TRENCH PUMP CONTROL PANEL
EF-1 ELECT. ROOM		860				1	3	20	20	4	3				100		FLOW TRANSMITTER PANEL
RECPT'S ELECT. ROOM			360		2		5	20	20/	6						1100	UH-2 HEATER METER ROOM
RECPT'S METER ROOM	360				2		7	20		8	1			1100			
UH-1 HEATER ELECT. ROOM		1100					9	20/	3P	10					1100		
			110			1	11		20	12	1					860	EF-2 METER ROOM
	1100						13	3P	20	14	1						SPARE
SPARE							15	20	20	16	1		5		340		ELECT. RM & OUTSIDE LIGHTS
SPARE							17	20		18							SPACE
SPARE							19	20		20							SPACE
	2090	1960	1460				TOTAL		TOTAL					1500	1540	1960	
	PHASE TOTAL			TOTAL LOAD													
	3590	3500	3420	10.5KVA (29.4AMP)													

208-120 VOLTS 3 Φ 4 W — 50 AMP MAIN BREAKER — PANELBOARD LP-T9 — LOCATION LEACHATE CELL 9 CREST PAD BUILDING — FEED TOP — MTG SURFACE

LOAD DESCRIPTION	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LTG	REC	MIS	CIR	BKR	BKR	CIR	MIS	REC	LTG	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LOAD DESCRIPTION
METER ROOM LIGHTS	630			9			1	20	20	2	1			400			TRENCH PUMP CONTROL PANEL
EF-1 ELECT. ROOM		860				1	3	20	20	4	3				100		FLOW TRANSMITTER PANEL
RECPT'S ELECT. ROOM			360		2		5	20	20/	6						1100	UH-2 HEATER METER ROOM
RECPT'S METER ROOM	360				2		7	20		8	1			1100			
UH-1 HEATER ELECT. ROOM		1100					9	20/	3P	10					1100		
			110			1	11		20	12	1					860	EF-2 METER ROOM
	1100						13	3P	20	14	1			136			SPARE
SPARE							15	20	20	16	1		5		340		ELECT. RM & OUTSIDE LIGHTS
SPARE							17	20		18							SPACE
SPARE							19	20		20							SPACE
	2090	1960	1460				TOTAL		TOTAL					1500	1540	1960	
	PHASE TOTAL			TOTAL LOAD													
	3590	3500	3420	10.5KVA (29.4AMP)													

208-120 VOLTS 3 Φ 4 W — 50 AMP MAIN BREAKER — PANELBOARD LP-T8 — LOCATION LEACHATE CELL 8 CREST PAD BUILDING — FEED TOP — MTG SURFACE

LOAD DESCRIPTION	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LTG	REC	MIS	CIR	BKR	BKR	CIR	MIS	REC	LTG	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LOAD DESCRIPTION
METER ROOM LIGHTS	630			9			1	20	20	2	1			400			TRENCH PUMP CONTROL PANEL
EF-1 ELECT. ROOM		860				1	3	20	20	4	3				100		FLOW TRANSMITTER PANEL
RECPT'S ELECT. ROOM			400		2		5	20	20/	6						1100	UH-2 HEATER METER ROOM
RECPT'S METER ROOM	360				2		7	20		8	1			1100			
UH-1 HEATER ELECT. ROOM		1100					9	20/	3P	10					1100		
			1100			1	11		20	12	1					860	EF-2 METER ROOM
	1100						13	3P	20	14	1						SPARE
SPARE							15	20	20	16	1		5		340		ELECT. RM & OUTSIDE LIGHTS
SPARE							17	20		18							SPACE
SPARE							19	20		20							SPACE
	2090	1960	1460				TOTAL		TOTAL					1500	1540	1960	
	PHASE TOTAL			TOTAL LOAD													
	3590	3500	3420	10.5KVA (29.1AMP)													

208-120 VOLTS 3 Φ 4 W — 50 AMP MAIN BREAKER — PANELBOARD LP-T10 — LOCATION LEACHATE CELL 10 CREST PAD BUILDING — FEED TOP — MTG SURFACE

LOAD DESCRIPTION	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LTG	REC	MIS	CIR	BKR	BKR	CIR	MIS	REC	LTG	VOLT AMPERE ΦA	VOLT AMPERE ΦB	VOLT AMPERE ΦC	LOAD DESCRIPTION
METER ROOM LIGHTS	630			9			1	20	20	2	1			400			TRENCH PUMP CONTROL PANEL
EF-1 ELECT. ROOM		860				1	3	20	20	4	3				100		FLOW TRANSMITTER PANEL
RECPT'S ELECT. ROOM			400		2		5	20	20/	6						1100	UH-2 HEATER METER ROOM
RECPT'S METER ROOM	360				2		7	20		8	1			1100			
UH-1 HEATER ELECT. ROOM		1100					9	20/	3P	10					1100		
			1100			1	11		20	12	1					860	EF-2 METER ROOM
	1100						13	3P	20	14	1						SPARE
SPARE							15	20	20	16	1		5		340		ELECT. RM & OUTSIDE LIGHTS
SPARE							17	20		18							SPACE
SPARE							19	20		20							SPACE
	2090	1960	1460				TOTAL		TOTAL					1500	1540	1960	
	PHASE TOTAL			TOTAL LOAD													
	3590	3500	3420	10.5KVA (29.1AMP)													

LUMINAIRE SCHEDULE

TYPE	WATTS / LAMP	VOLTS	DESCRIPTION
F5	2-34 W / R.S FLUOR	120	INDUSTRIAL TYPE FLUORESCENT LUMINAIRE, 304.8mm x 1.22m(1'x4'), 2 LAMP, HEAVY GAGE STEEL REFLECTOR, WHITE POLYESTER POWDER ENAMEL FINISH, ELECTRONIC BALLAST LITHONIA EJA 240 SERIES OR EQUAL
H2	50 W / HPS	120	WALL MOUNT ON RECESSED ON OUTLET BOX, HIGH PRESSURE SODIUM, 10" ROUND OPEN BAFFLE, WEATHERPROOF GASKETING, BRONZE FINISH HUBBELL BHI SERIES OR EQUAL
H4	250 W / HPS	480	POLE MOUNTED, HIGH PRESSURE SODIUM, LIGHTWEIGHT ALUMINUM, RECTILINEAR SHAPE, CONTINUOUS GASKET, TEMPERED GLASS LENS FLUSH WITH BOTTOM OF LUMINAIRE, U.L. LISTED FOR WET LOCATIONS. (LITHONIA CAT # KSF2-250SR3-480-RP12-DDB CROWFORDSVILLE, IN) OR EQUAL 7.62m(25') ROUND TAPERED ALUMINUM POLE (#TRA-25-7E-DM19-DDB) OR EQUAL SUITABLE FOR 100 MPH WINDS AND MATCHED TO LUMINAIRE, SEE (12) 0600X-DD-E0107

NOTES

1. PANEL LP-T7(9), CIRCUIT NO. 14, INSTALL A 30MA RATED GFCI TYPE CIRCUIT BREAKER.
2. CIRCUIT BREAKERS IN PANELS LP-T7(9) AND LP-T8(10) SHALL BE 10,000 AMP MINIMUM INTERRUPTING RATING.

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1. ☑ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
4. ☐ Revise and resubmit. Work may not proceed.
5. ☐ Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

10/8/07 — 0600X-SC-60524 05-19 074 — 500X524A00

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RAYMOND E. MERRIMAN — STATE OF WASHINGTON — 12322 — REGISTERED PROFESSIONAL ENGINEER — EXPIRES 11-30-08

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ENG'R	ENG'R CHK	SYS ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION		JD			N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON — WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
ELECTRICAL SCHEDULES

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0117.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0117	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15917 SHT01	600G	7404

River Corridor Closure Contract — Dedicated to Safety Excellence

DRAWING NO.	REV. NO.
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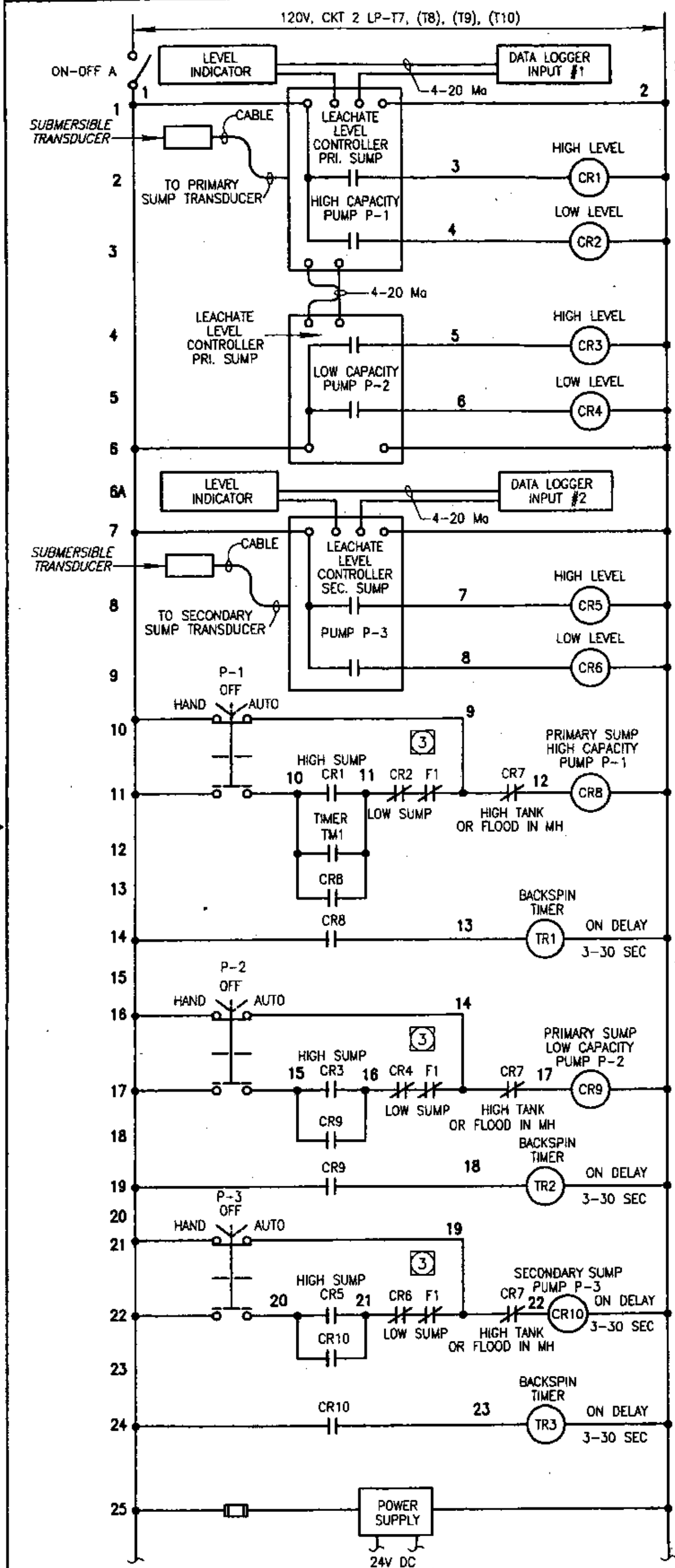
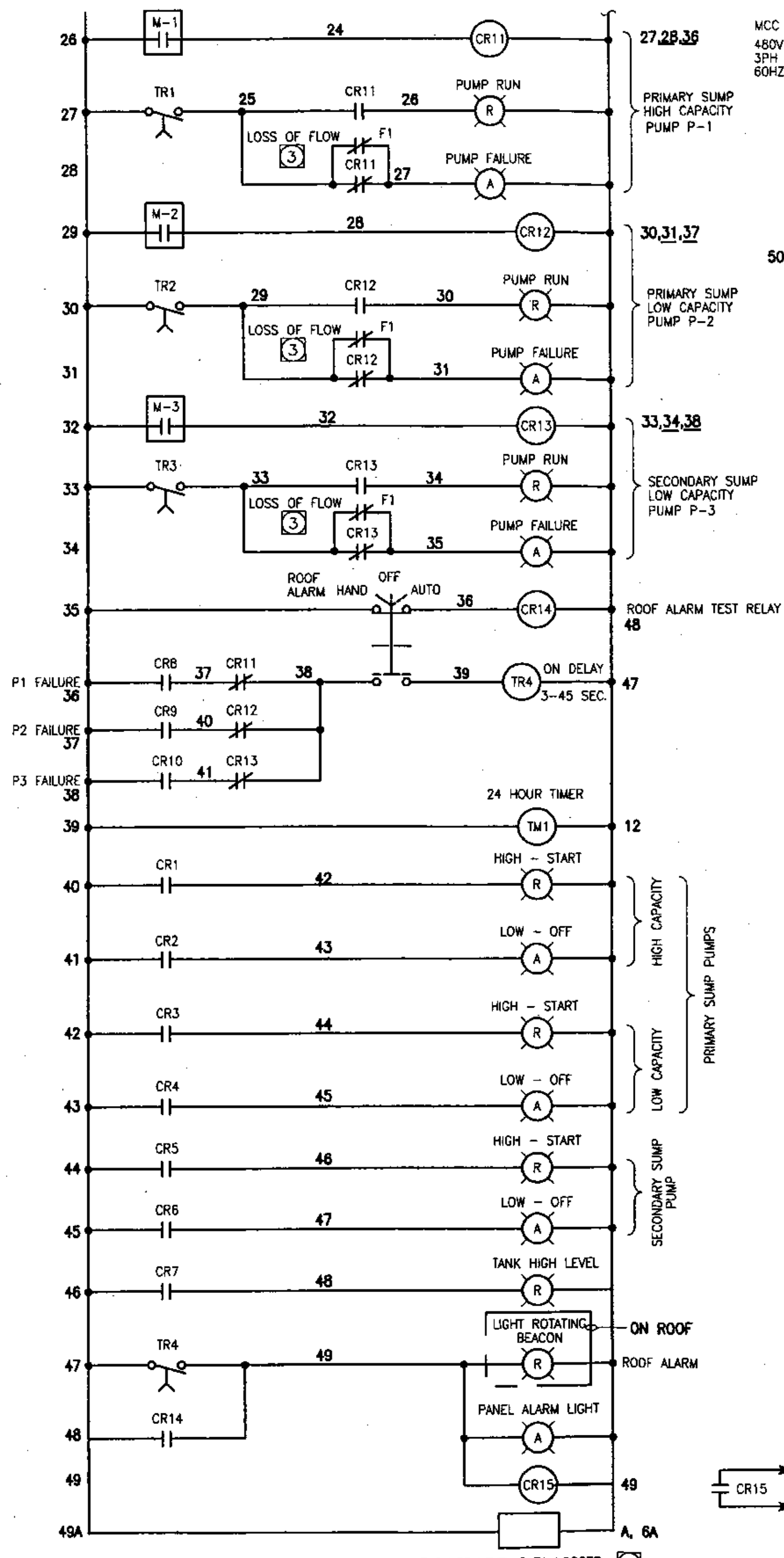
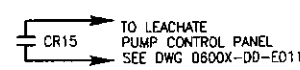


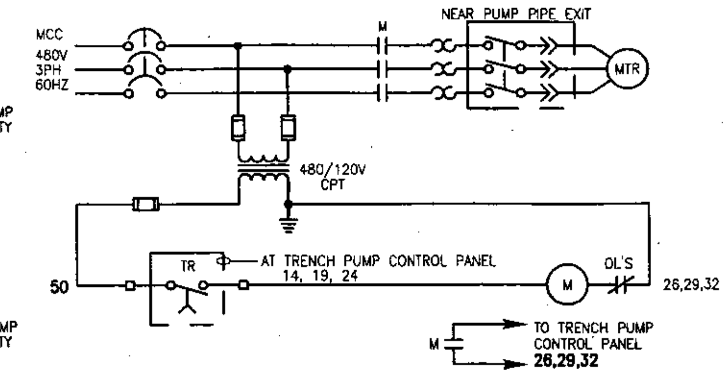




TRENCH PUMP CONTROL PANEL CONTROL SCHEMATIC

TYPICAL FOR CREST PAD BUILDING NO. 7, 8, 9, 10

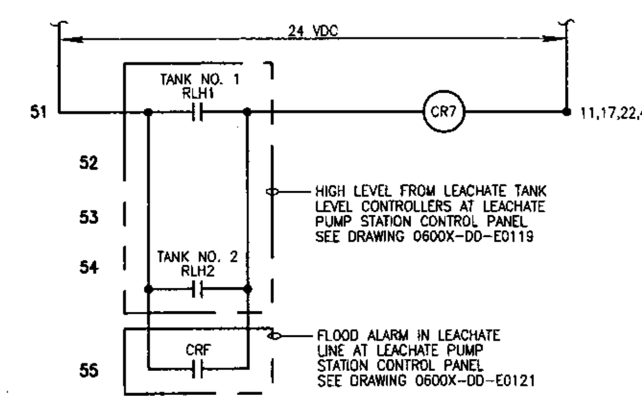
ALL DEVICES ARE ON CONTROL PANEL UNLESS NOTED OTHERWISE
SEE CONTROL ARRANGEMENT ON DWG 0600X-DD-E0119



TRENCH PUMP CONTROL SCHEMATIC

(TYP P-1, P-2, P-3)

TRENCH CELLS						
CELL 7 TAG NO.	CELL 8 TAG NO.	CELL 9 TAG NO.	CELL10 TAG NO.	PUMP	M	TR
2-P-26	2-P-29	2-P-32	2-P-35	P-1	M-1	TR1
2-P-27	2-P-30	2-P-33	2-P-36	P-2	M-2	TR2
2-P-28	2-P-31	2-P-34	2-P-37	P-3	M-3	TR3



LEVEL AND MANHOLE FLOOD INTERLOCK CONTROL SCHEMATIC

(TRENCH PUMP CONTROL PANEL)

NOTES

1. PROVIDE LEACHATE LEVEL (PRIMARY AND SECONDARY) DATA LOGGER.
2. PROVIDE RJ-45 COMMUNICATION PORT ON THE ENCLOSURE (LOWER RIGHT SIDEPANEL) TO THE PLC.
3. CONTACT FROM DIGITAL FLOW INDICATOR; SEE DWG. 0600X-DD-E0120, "CREST PAD LEACHATE FLOW MEASUREMENT"

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0	9/28/07	ISSUED FOR CONSTRUCTION		JD			N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CONTROL SCHEMATICS - 1

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0118.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0118	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
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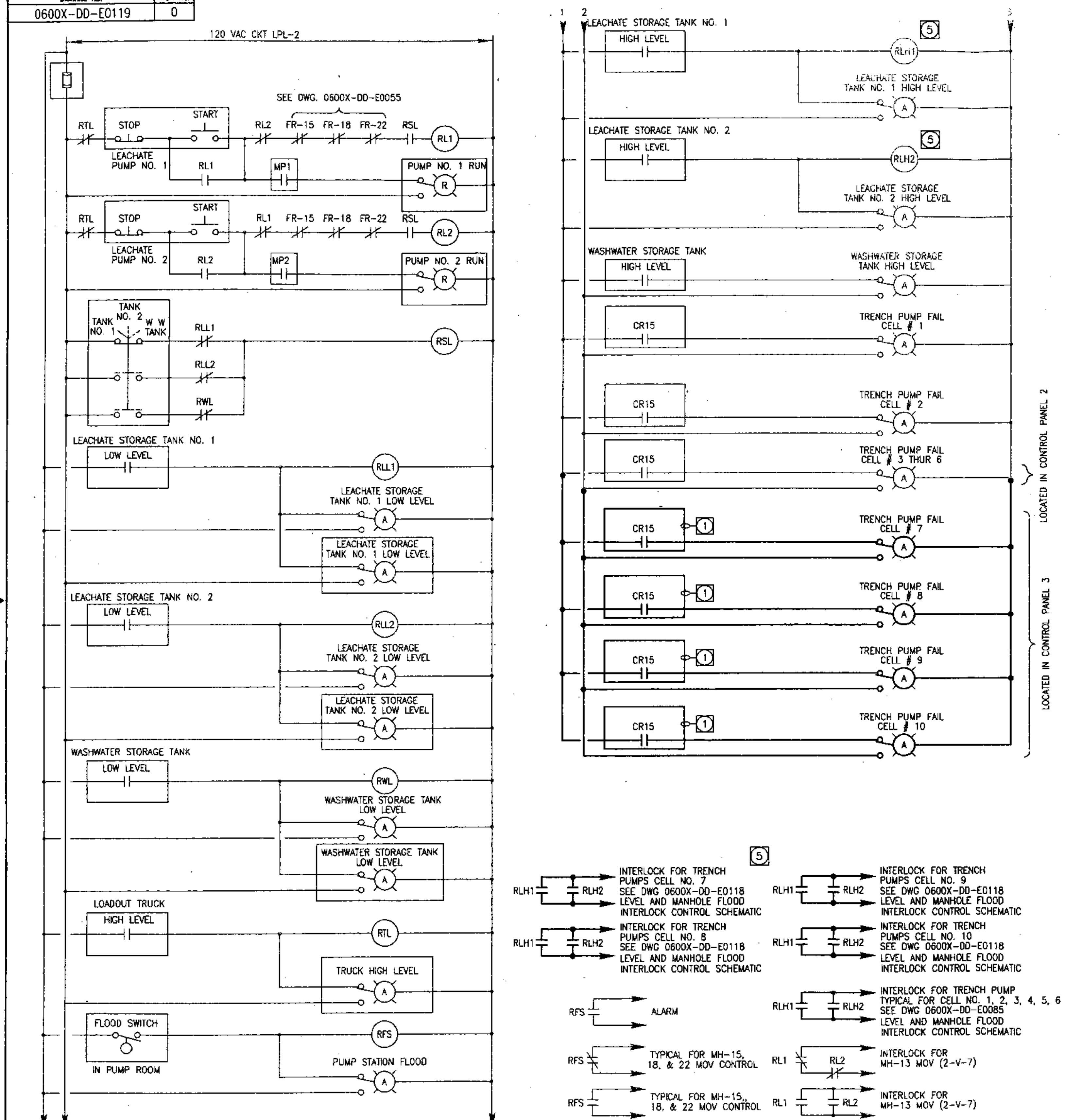
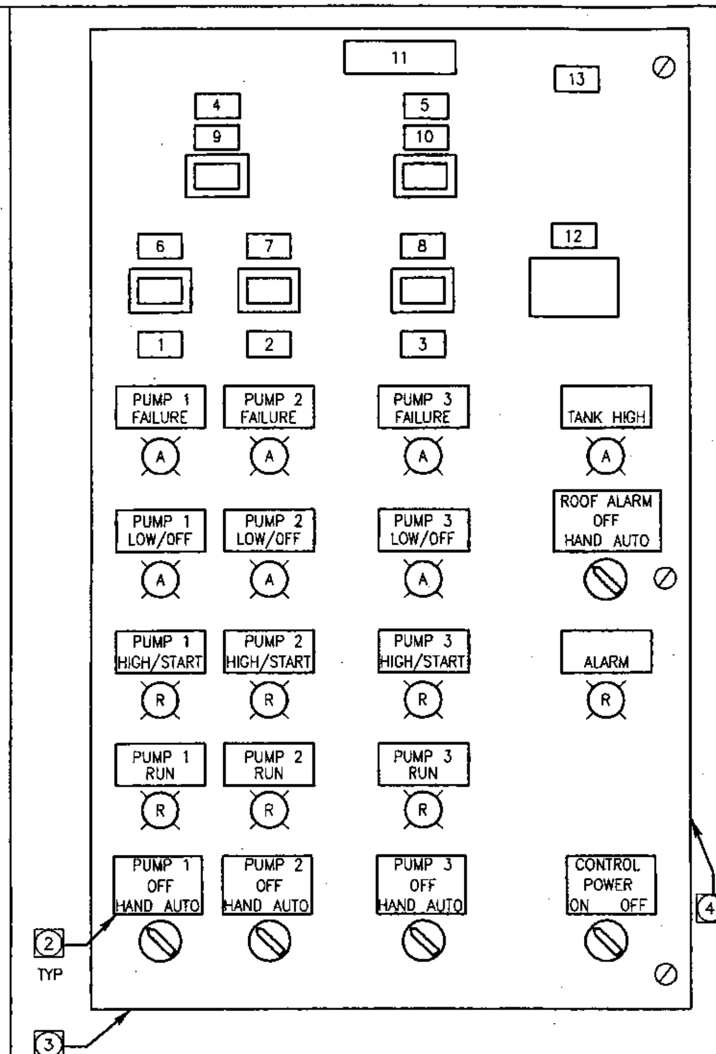
DRAWING NO.	REV. NO.
0600X-DD-E0119	0



LEACHATE CONTROL PANEL SCHEMATIC

ALL CONTROLS LOCATED IN LEACHATE CONTROL PANEL UNLESS NOTED OTHERWISE (ALSO REF. DWG. 0600X-DD-E0121)



CONTROL ARRANGEMENT TRENCH PUMP CONTROL PANEL

TYPICAL FOR CREST PAD BUILDING NO. 7, 8, 9, AND 10
SEE DWG 0600X-DD-E0123

NAMEPLATE SCHEDULE	
NO.	INSCRIPTION
1	PUMP 1 HIGH CAPACITY
2	PUMP 2 LOW CAPACITY
3	PUMP 3 LOW CAPACITY
4	PRIMARY SUMP
5	SECONDARY SUMP
6	HIGH FLOW
7	LOW FLOW
8	FLOW
9	PRIMARY SUMP LEVEL
10	SECONDARY SUMP LEVEL
11	TRENCH PUMP CONTROL PANEL
12	LEACHATE LEVEL (PRI-SEC) DATA LOGGER
13	WARNING: MULTIPLE SOURCES FED FROM LP-T(X) CKT. 2 & 4 (FLOW)

(X) = 7,8,9,10, AS APPLICABLE

RECORD INFORMATION		
RECORD NO.	BLDG NO.	INDEX NO.
H-6-15919 SHT01	6000	7502

NOTES

1. AT TRENCH PUMP CONTROL PANEL DWG 0600X-DD-E0118
2. ENGRAVED NAMEPLATES: NOMENCLATURE AND STYLE TO MATCH PREVIOUS TRENCH PUMP CONTROL PANEL INSTALLED IN CREST PAD BUILDING NO. 5 AND NO. 6.
3. TRENCH PUMP CONTROL PANEL. NEMA 12 HINGED ENCLOSURE. MINIMUM ENCLOSURE SIZE SHALL BE 24" WIDE x 42" HIGH x 12" DEEP. CONSTRUCTION FEATURES TO MATCH PREVIOUS TRENCH PUMP CONTROL PANEL INSTALLED IN CREST PAD BUILDING NO. 5 AND NO. 6. PANEL SHALL BE U.L. 508A LABELED.
4. COMMUNICATIONS PORT TO THE PLC
5. PROVIDE ADDITIONAL RLH1 & RLH2 CONTACTS (PARALLEL COILS), IF REQUIRED, FOR CELLS 7-10.

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0	9/28/07	ISSUED FOR CONSTRUCTION		JD			N/A	

SCALE: NA

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DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON
WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CONTROL SCHEMATICS - 2

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0119.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0119	0

River Corridor Closure Contract — Dedicated to Safety Excellence

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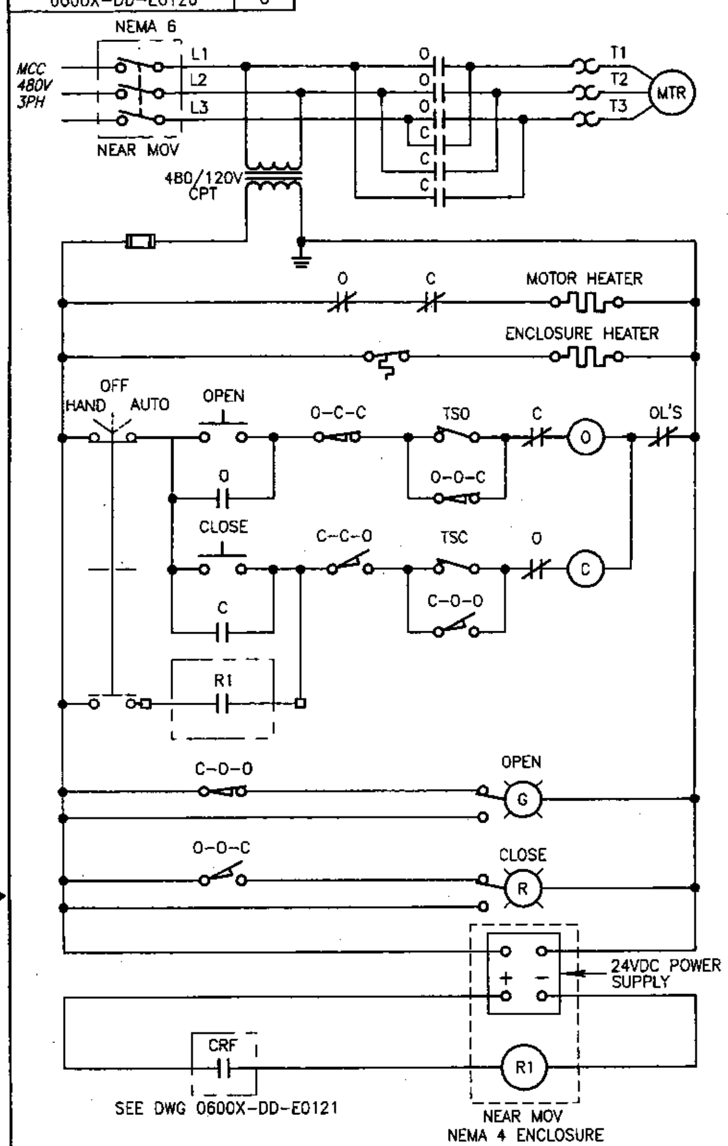
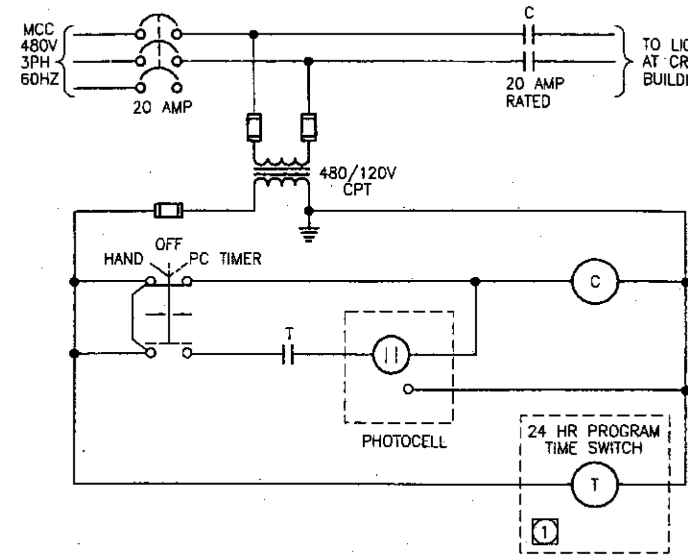


MANHOLE NUMBER	MOV TAG NUMBER
MH-30	2-V-19
MH-31	2-V-20
MH-32	2-V-21
MH-33	2-V-22

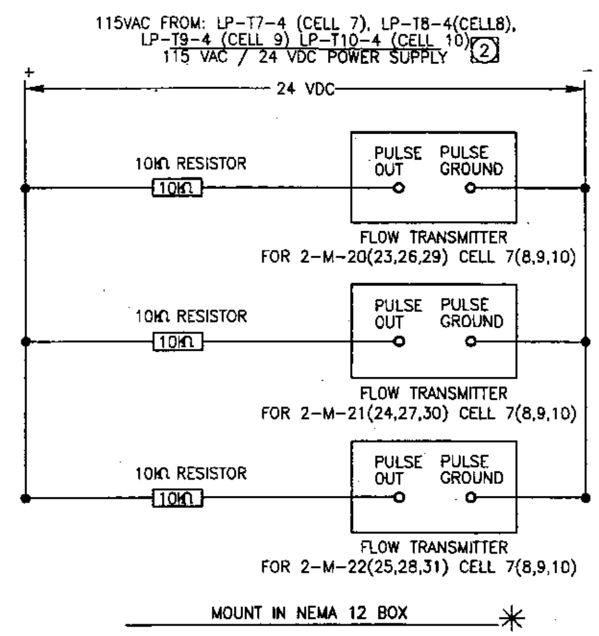
ALL CONTROLS ARE AT VALVE OPERATOR UNLESS NOTED OTHERWISE

MOTOR OPERATED VALVE (MOV) CONTROL SCHEMATIC

NOTE:
CONTRACTOR SHALL INSTALL EQUIPMENT INSIDE NEW MANHOLES IDENTICAL TO EXISTING MANHOLES AT PREVIOUS CELL NO. 5 AND 6. FIELD VERIFY AT EXISTING SITE.

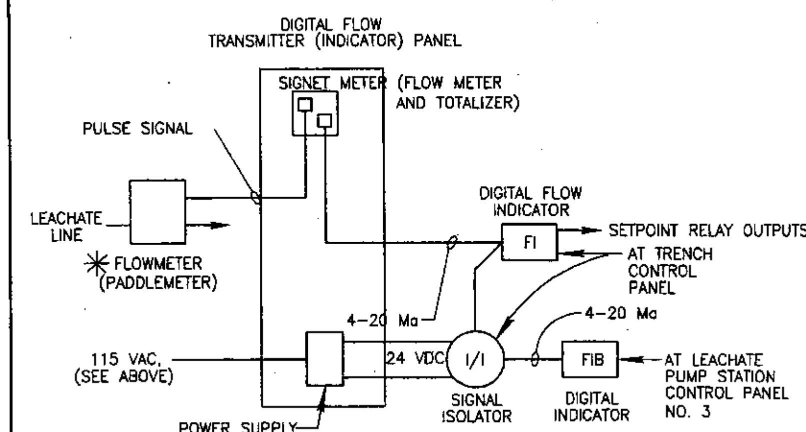


LIGHT POLE AT CREST PAD BUILDING LIGHTING CONTROL DIAGRAM



POWER SUPPLY FOR FLOW TRANSMITTERS FOR FLOWMETERS 2-M-20 THRU 2-M-31

* SEE DRAWING 0600X-DD-E0123



CREST PAD LEACHATE FLOW MEASUREMENT

TYPICAL FOR FLOWMETER (PADDLEMETER) NO. 2-M-20, 2-M-21, 2-M-22, CELL 7
2-M-23, 2-M-24, 2-M-25, CELL 8
2-M-26, 2-M-27, 2-M-28, CELL 9
2-M-29, 2-M-30, 2-M-31, CELL 10

* SEE MECHANICAL SCHEDULE

NOTES

1. PROVIDE AND INSTALL TIMESWITCH AS FOLLOWS: INTERMATIC, INC. MODEL T-103, OR EQUAL. 24 HOUR DIAL TIME SWITCH, DOUBLE POLE, SINGLE THROW 40 AMP/POLE 12 ON/OFF OPERATIONS EACH DAY, 120 VOLT INPUT, NEMA 1 ENCLOSURE.
2. POWER SUPPLY LOCATED INSIDE FLOW TRANSMITTER PANEL.

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RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CONTROL SCHEMATICS - 3

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0120.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0120	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15920 SHT01	6006	7502

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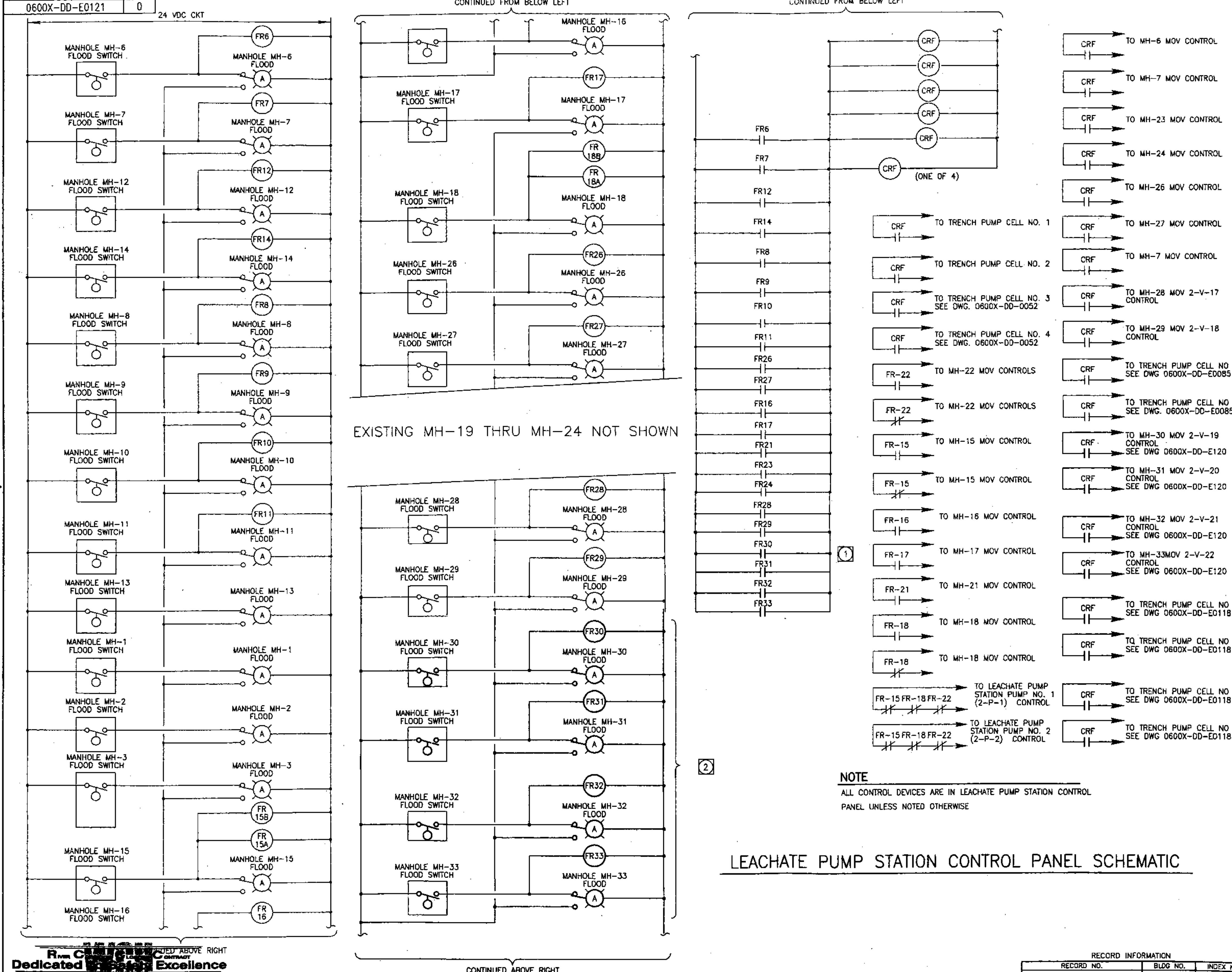
0600X-DD-E0121	0



NOTE

ALL CONTROL DEVICES ARE IN LEACHATE PUMP STATION CONTROL PANEL UNLESS NOTED OTHERWISE

LEACHATE PUMP STATION CONTROL PANEL SCHEMATIC

NOTES

1. CONNECT MH-30, MH-31 AND MH-32 FLOOD SWITCH ALARMS INTO SPARE ALARM LIGHTS (PROVIDE RELAYS, ALARM LIGHT, FOR MH-33 FLOOD SWITCH) IN LEACHATE PUMP STATION CONTROL PANEL. RUN NEW CRF RELAY SIGNAL TO TRENCH PUMPS AND MOV AT CELLS 7, 8, 9 AND 10 PUMPS.
2. NEW RELAYS AND INDICATING LIGHTS TO MATCH EXISTING.

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RIVER CORRIDOR CLOSURE CONTRACT

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ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CONTROL SCHEMATICS - 4

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0121.DWG

TASK	DRAWING NO.	REV. NO.
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RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15921 SHT01	600G	7502

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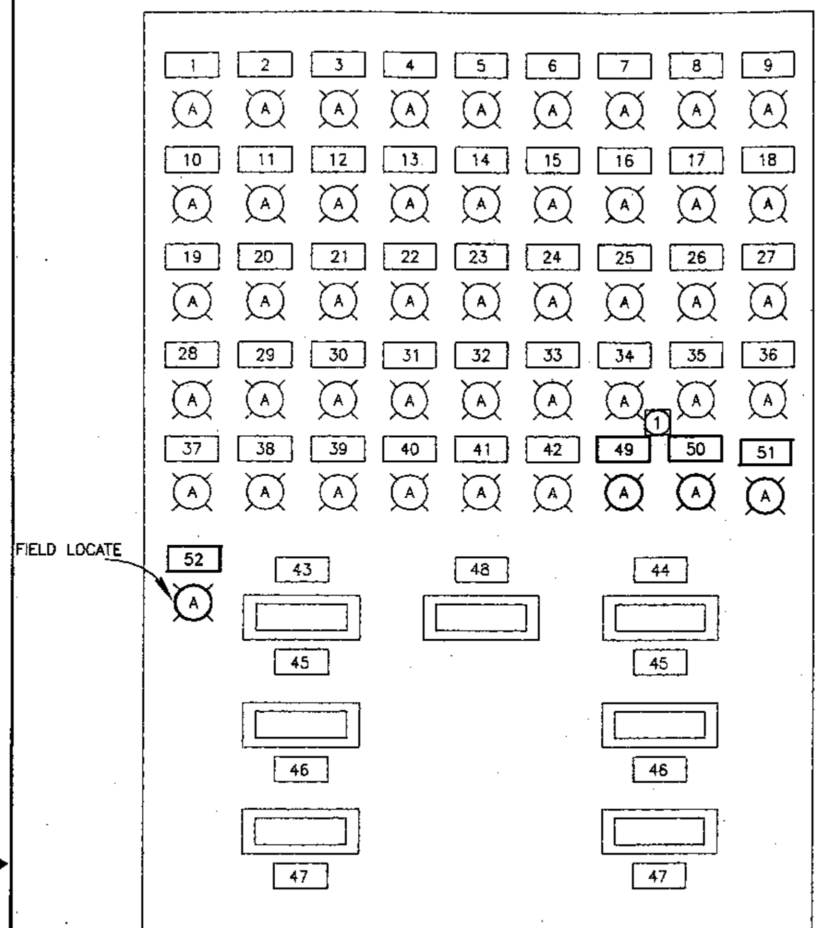
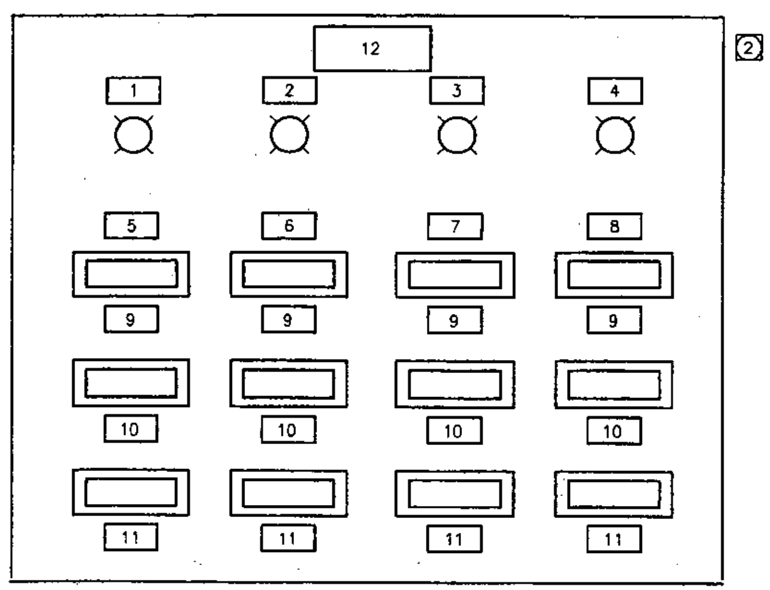


EXISTING LEACHATE PUMP STATION CONTROL PANEL

NAMEPLATE SCHEDULE

NO.	INSCRIPTION	NO.	INSCRIPTION
1	MH-10 FLOOD	26	MH-17 MOISTURE
2	MH-11 FLOOD	27	MH-18 MOISTURE
3	MH-9 FLOOD	28	MH-24 FLOOD
4	MH-8 FLOOD	29	MH-21 MOISTURE
5	MH-7 FLOOD	30	MH-22 MOISTURE
6	MH-12 FLOOD	31	MH-28 FLOOD
7	MH-26 FLOOD	32	MH-29 FLOOD
8	MH-27 FLOOD	33	PUMP STATION FLOOD
9	MH-6 FLOOD	34	HIGH LEVEL LIFT STATION NO. 1
10	MH-14 FLOOD	35	TRENCH CELL 1 PUMP FAIL
11	MH-15 FLOOD	36	TRENCH CELL 2 PUMP FAIL
12	MH-17 FLOOD	37	STORAGE TANK NO. 1 HIGH LEVEL
13	MH-21 FLOOD	38	STORAGE TANK NO. 1 LOW LEVEL
14	MH-16 FLOOD	39	STORAGE TANK NO. 2 LOW LEVEL
15	MH-18 FLOOD	40	STORAGE TANK NO. 2 LOW LEVEL
16	MH-22 FLOOD	41	WASHWATER TANK HIGH LEVEL
17	MH-13 FLOOD	42	WASHWATER TANK LOW LEVEL
18	MH-1 FLOOD	43	TRENCH CELL 1 LEACHATE PUMP FLOW
19	MH-2 FLOOD	44	TRENCH CELL 2 LEACHATE PUMP FLOW
20	MH-3 FLOOD	45	PUMP 1
21	MH-19 FLOOD	46	PUMP 2
22	MH-20 FLOOD	47	PUMP 3
23	MH-15 MOISTURE	48	FLOW TO LOADOUT TRUCK
24	MH-23 FLOOD	49	MH-30 FLOOD
25	MH-16 MOISTURE	50	MH-31 FLOOD
		51	MH-32 FLOOD
		52	MH-33 FLOOD

1



NEW LEACHATE PUMP STATION CONTROL PANEL NO. 3

NAMEPLATE SCHEDULE

NO.	INSCRIPTION
1	TRENCH CELL 7 FAIL
2	TRENCH CELL 8 FAIL
3	TRENCH CELL 9 FAIL
4	TRENCH CELL 10 FAIL
5	TRENCH CELL 7 LEACHATE PUMP FLOW
6	TRENCH CELL 8 LEACHATE PUMP FLOW
7	TRENCH CELL 9 LEACHATE PUMP FLOW
8	TRENCH CELL 10 LEACHATE PUMP FLOW
9	PUMP 1
10	PUMP 2
11	PUMP 3
12	LEACHATE P.S. CONTROL PANEL NO. 3

NOTES

1. COMPONENTS ARE EXISTING (49, 50, 51) PROVIDE NEW FOR 52. PROVIDE TERMINALS BLOCKS AND WIRING TO MATCH EXISTING. REPLACE EXISTING NAMEPLATES WITH NEW INSCRIPTIONS PER SCHEDULES.

2. MOUNT LEACHATE PUMP STATION CONTROL PANEL NO. 3 EAST OF LEACHATE PUMP STATION CONTROL PANEL AND SIMILAR TO CONTROL PANEL NO. 2.

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—— NEW

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WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CONTROL SCHEMATICS - 5

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0122.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0122	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15922 SHT01	600G	7502

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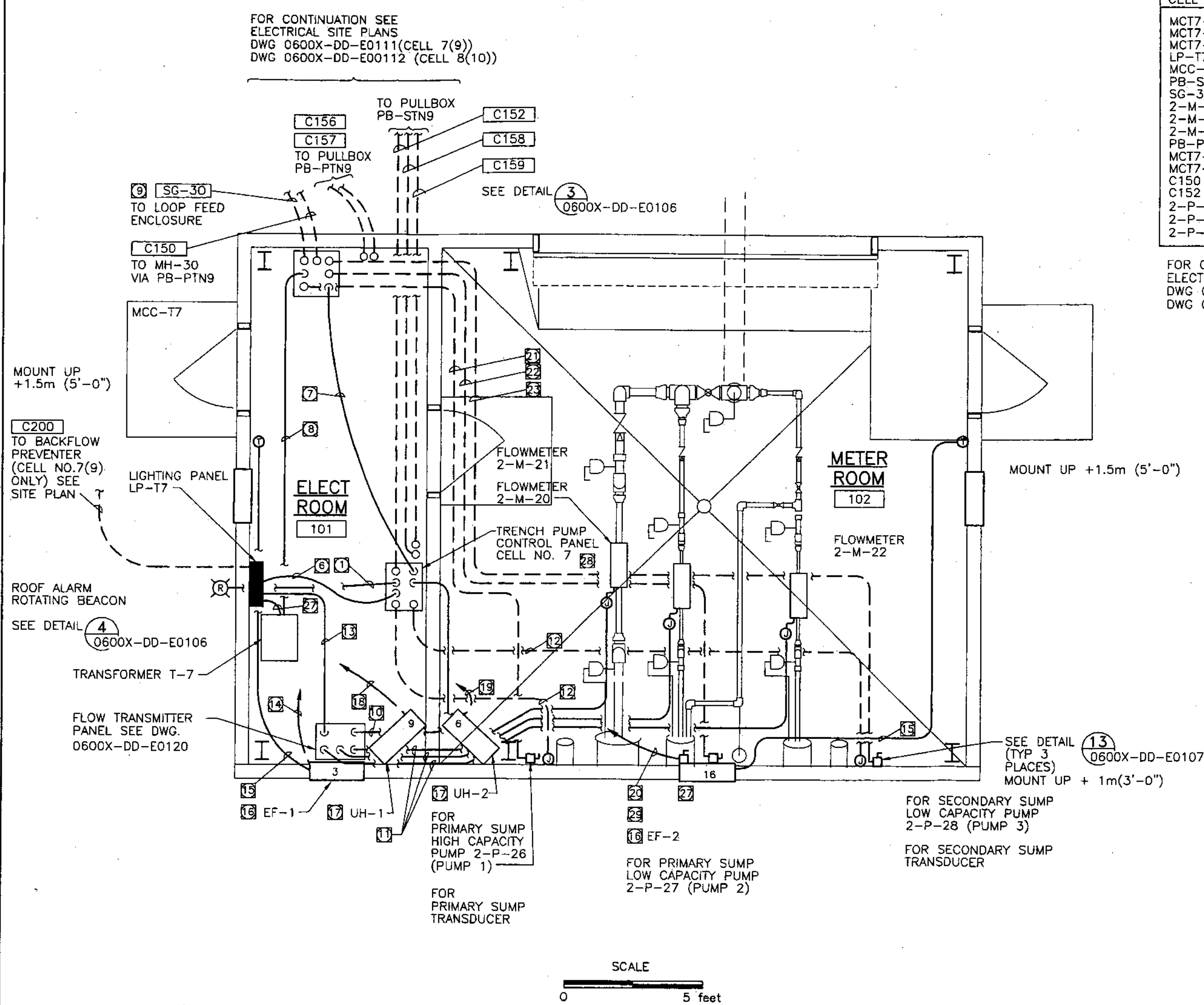
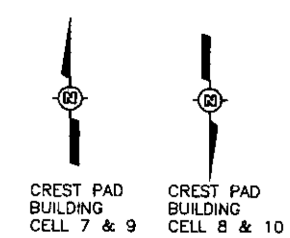


THIS DRAWING SHOWS CONDUIT AND EQUIPMENT FOR LEACHATE COLLECTION AT CELL NO. 7. ARRANGEMENT FOR CELL # 8,9,10 ARE SIMILAR WITH THE TAG NUMBER CHANGES.

CELL 7	CELL 8	CELL 9	CELL 10
MCT7-3	MCT8-3	MCT9-3	MCT10-3
MCT7-4	MCT8-4	MCT9-4	MCT10-4
MCT7-5	MCT8-5	MCT9-5	MCT10-5
LP-T7	LP-T8	LP-T9	LP-T10
MCC-T7	MCC-T8	MCC-T9	MCC-T10
PB-STN9	PB-STS9	PB-STN11	PB-STS11
SG-30	SG-2L	SG-30	SG-2L
2-M-20	2-M-23	2-M-26	2-M-29
2-M-21	2-M-24	2-M-27	2-M-30
2-M-22	2-M-25	2-M-28	2-M-31
PB-PTN9	PB-PTS9	PB-PTN11	PB-PTS11
MCT7-2A	MCT8-2A	MCT9-2A	MCT10-2A
MCT7-2AA	MCT8-2AA	MCT9-2AA	MCT10-2AA
C150	C160	C150	C160
C152	C162	C152	C162
2-P-26	2-P-29	2-P-32	2-P-35
2-P-27	2-P-30	2-P-33	2-P-36
2-P-28	2-P-31	2-P-34	2-P-37

FOR CONTINUATION SEE ELECTRICAL SITE PLANS DWG 0600X-DD-E0111(CELL 7(9)) DWG 0600X-DD-E00112 (CELL 8(10))



NOTES

1. 19.05mm (3/4")C, 2#12, 1#12G
2. VALUE IN () INDICATE VALUE ASSOC. WITH CELL 9 OR 10
3. NOT USED
4. NOT USED
5. NOT USED
6. 25.4mm (1")C, 2#12, 1#12G
7. 25.4mm (1")C, 20 #14, 1#14G
8. MCT7-2A
9. SEE DWG 0600X-DD-E0110 FOR CONDUIT/CONDUCTOR SIZES
10. 25.4mm (1")C, 3-2/C #16 SHLD
11. 19.05mm (3/4")C, 2/C #16 SHLD
12. 25.4mm (1")C, VENDOR CABLE
13. 19.05mm (3/4")C, 3#10, 1#10G TO LP-T7
14. 19.05mm (3/4")C, 2#12, 1#12G TO LP-T7
15. 19.05mm (3/4")C, 2#12, 1#12G
16. 1/2HP 120VAC 1 PHASE PROP TYPE EXHAUST FAN.
17. 3 KW UNIT HEATER
18. 19.05mm (3/4")C, 3#12, 1#12G TO LP-T7
19. 19.05mm (3/4")C, 3#12, 1#12G TO LP-T7
20. 19.05mm (3/4")C, 3#12, 1#12G TO LP-T7
21. MCT7-3, SEE ONE LINE DIAGRAM DWG 0600X-DD-E0115
22. MCT7-4, SEE ONE LINE DIAGRAM DWG 0600X-DD-E0115
23. MCT7-5, SEE ONE LINE DIAGRAM DWG 0600X-DD-E0115
24. NOT USED
25. FIELD ROUTE ALL CONDUIT ON WALLS.
26. NOT USED
27. 25.4mm (1")C, 4#6, 1#10G
28. SEE CONTROL DIAGRAM ON DWG 0600X-DD-E0118
29. MOUNT DISCONNECT SWITCHES FOR UNIT HEATERS AND EXHAUST FANS ON WALL ADJACENT TO UNITS.

MY STAMP AND SEAL APPLY TO THOSE CHANGES MADE IN REVISION(S) E. THE ORIGINAL DESIGN WAS NOT PREPARED UNDER MY DIRECTION.

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EXPIRES 11-30-08

DOCUMENT CONTROL mc 10/11/07

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REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ DSN'R	CHK'D DSN'R	SYS DSN'R	PROJ DSN'R
0	9/28/07	ISSUED FOR CONSTRUCTION	BBL	SD			N/A	

SCALE: AS SHOWN

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CREST PAD ELECTRICAL POWER PLAN

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0123.DWG

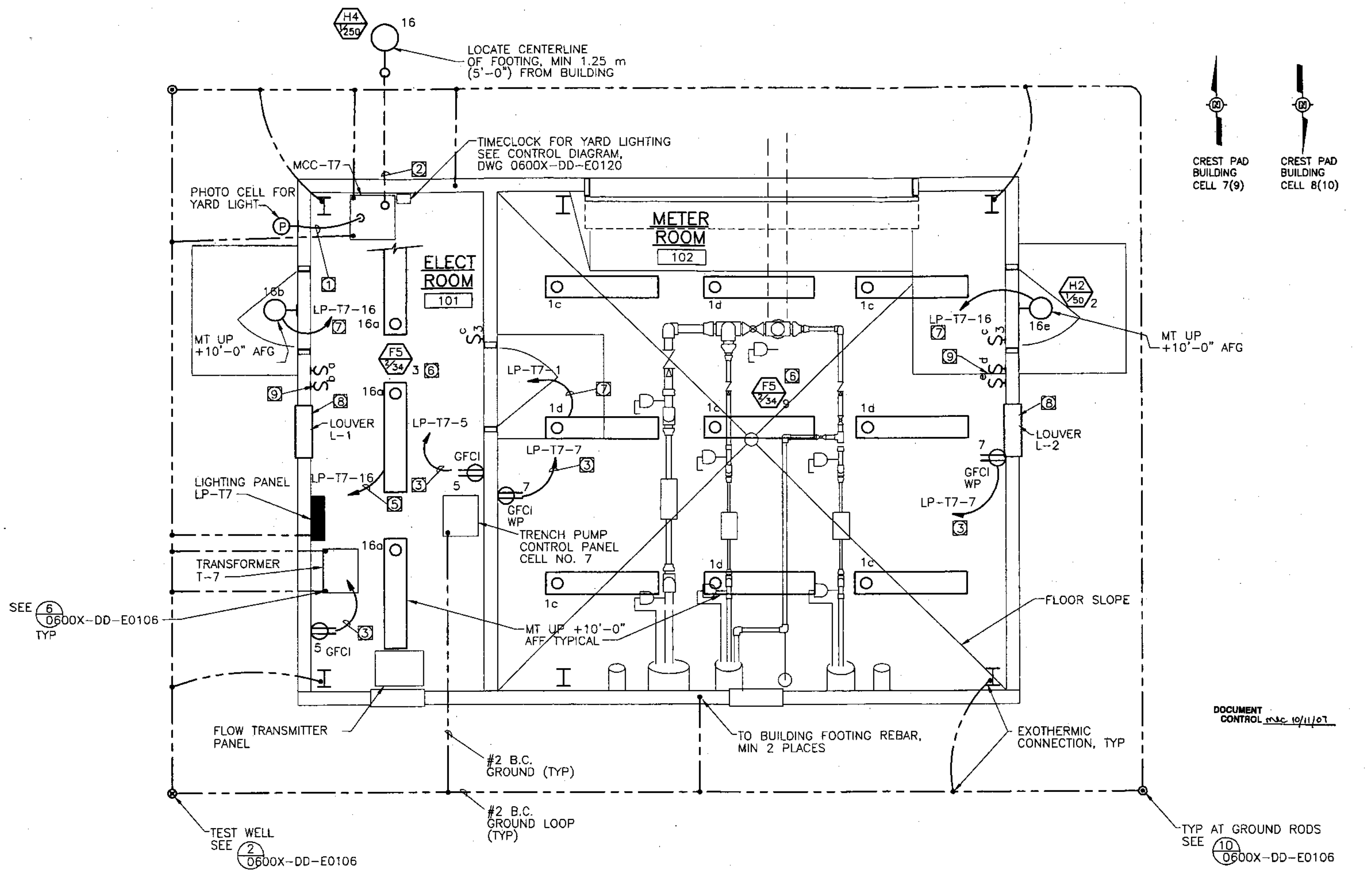
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0123	0

0600X-SC-G0524 05-19 080
500X524A00

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15923 SHT01	600G	7301

DRAWING NO.	REV. NO.
0600X-DD-E0124	0



NOTES

1. 21mm (3/4")C, 3#12
2. 27mm (1")C, 2#10, 1#10G
3. 21mm (3/4")C, 2#12, 1#12G
4. NOT USED
5. 21mm (3/4")C, 2#12, 1#12G
6. FOR LUMINAIRE SCHEDULE SEE DWG 0600X-DD-E0117
7. 19.05mm (3/4")C, 2#12, 1#12G
8. 609.6mm x 609.6mm (24"x24") LOUVER W/SELF-CLOSING DAMPER
9. ENGRAVE SWITCHPLATES Sb AND Se TO READ: "EXTERIOR DOORLIGHT".
10. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO LIGHTS, RECEPTACLES AND EQUIPMENT. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATION OF LIGHTS, LIGHT SWITCHES, RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUIT SHOWN. PROVIDE NO. 12 WIRE WITH NO. 12 GROUND IN 3/4" CONDUIT FOR CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE NO. 10 WIRE FOR LENGTHS GREATER THAN 75 FEET.

THIS DRAWING SHOWS CONDUIT AND EQUIPMENT FOR LEACHATE COLLECTION AT CELL NO. 7. ARRANGEMENT FOR CELL NO. 8,9&10 IS SIMILAR WITH THE TAG NUMBER CHANGES.

CELL 7	CELL 8	CELL 9	CELL 10
LP-T7 MCC-T7 MCT7-2B	LP-T8 MCC-T8 MCT8-2B	LP-T9 MCC-T9 MCT9-2B	LP-T10 MCC-T10 MCT10-2B

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REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ORIG/ DWG'R	DWG'R CHK	EYE CHK'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION	BH	JD			N/A	

SCALE: NA

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS, LLC. DENVER, COLORADO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7 - 10 CREST PAD ELECTRICAL LIGHTING PLAN

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDE0124.DWG

TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-E0124	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15924 SHT01	600G	7401

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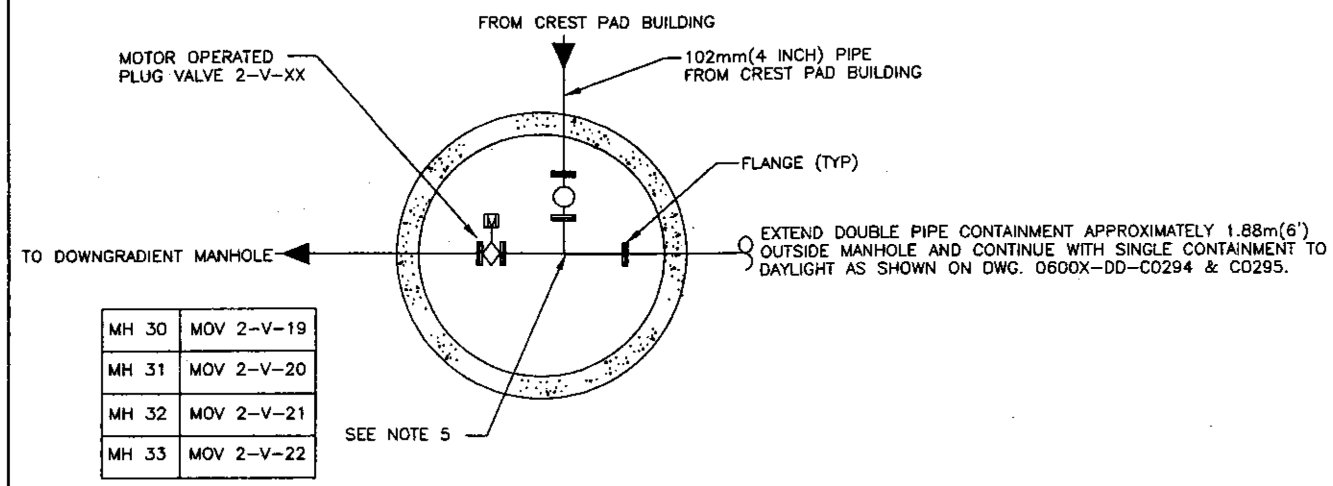
Bill Borlaug 10/9/07
0600X-SC-G0521 0519 081
500X524800

DRAWING NO.	REV. NO.
0600X-DD-M0022	0



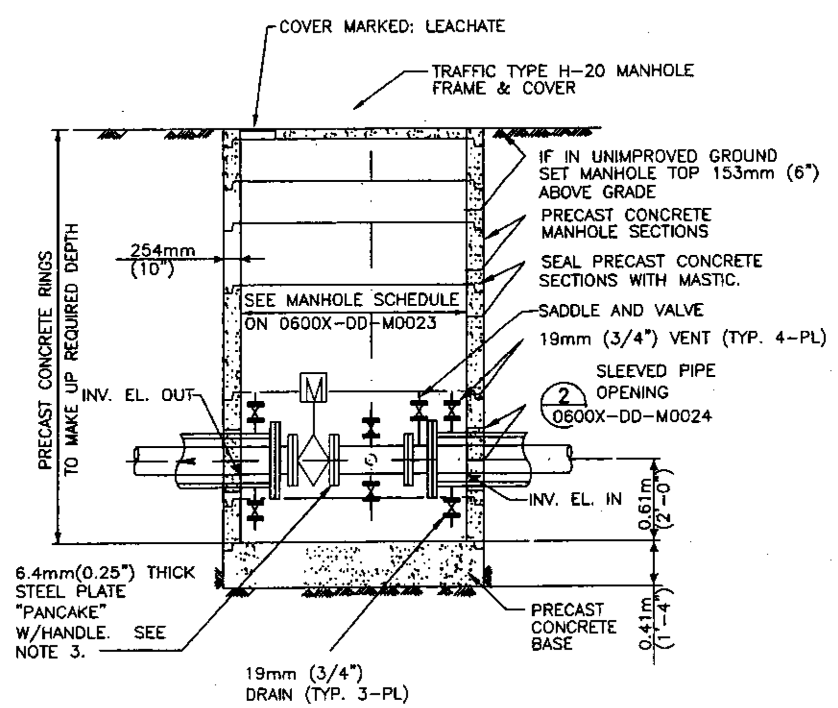
MH 30	MOV 2-V-19
MH 31	MOV 2-V-20
MH 32	MOV 2-V-21
MH 33	MOV 2-V-22

NOTES:

1. ALL JOINTS ARE FUSION WELDED UNLESS SHOWN OTHERWISE.
2. PROVIDE PIPE SUPPORTS AS PER MANUFACTURERS RECOMMENDATIONS.
3. CONTRACTOR SHALL USE THE SMALLEST PIPE SEGMENTS POSSIBLE FOR FABRICATING FITTINGS.
4. SECONDARY CONTAINMENT AND PENETRATION DETAILS NOT SHOWN.
5. MANHOLE COORDINATE LOCATION IS AT INTERSECTION OF PIPES. SEE MANHOLE SCHEDULE ON 0600X-DD-M0023.
6. 4" PIPE FROM CELL 7 & 9 CREST PAD BUILDING PENETRATES NORTH SIDE OF MANHOLE-(SHOWN ABOVE). 4" PIPE FROM CELL 8 & 10 CREST PAD BUILDING PENTETRATES SOUTH SIDE OF MANHOLE.

1 MANHOLE 30, 31, 32 & 33 TIE-IN DETAIL

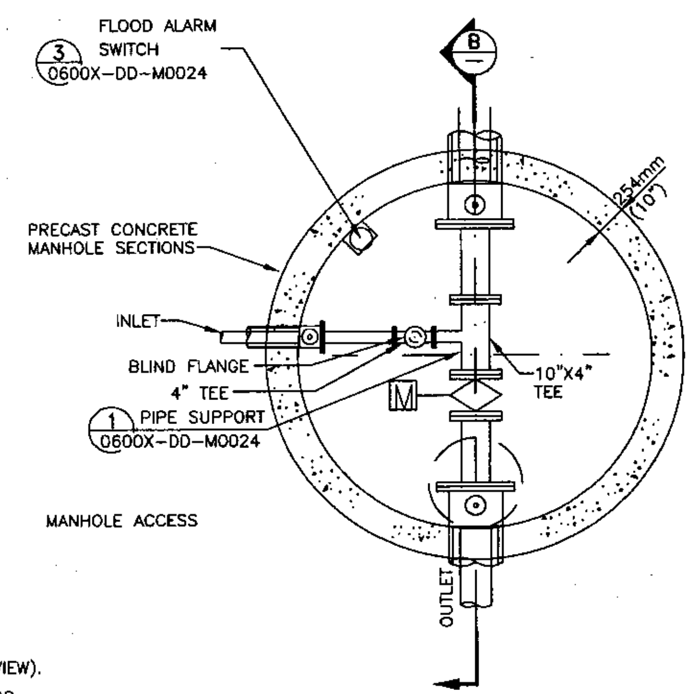
0600X-DD-C0292 NTS



B SECTION

NOTE:

1. PROVIDE INDIVIDUAL RUNG LADDER OR FIXED LADDER CONFORMING TO OSHA REQUIREMENTS.
2. VENTS AND DRAINS SHALL BE INSTALLED ON ALL THREE CONTAINMENT PIPES IN MANHOLE.
3. INSTALL "PANCAKE" TO ALLOW COLLECTION OF CLEAN LEACHATE WATER PRIOR TO WASTE PLACEMENT.
4. DETAILS FOR MANHOLE 7 & 9 SHOWN. FOR MANHOLES 30 AND 32 10"x4" TEE, INLET BLIND FLANGE REVERSED (COMING OUT THROUGH RIGHT SIDE OF PLAN VIEW).
5. INSTALL CONFINED SPACE POSTINGS, COORDINATE WITH CONTRACTOR



PLAN

2 MANHOLE 30, 31, 32 & 33 DETAILS

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NOTES

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EXPIRES 11-22-08

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0	10/05/07	ISSUED FOR CONSTRUCTION						

SCALE: XX

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS LLC DENVER, CO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
PIPING DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDM0022.DWG

TASK	DRAWING NO.	REV. NO.
EDRF	0600X-DD-M0022	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15925 SHT01	600G	9901

River Corridor Closure Contract
Dedicated to Safety Excellence

DRAWING NO.	REV. NO.
0600X-DD-M0023	0

PUMP SCHEDULE

EQUIPMENT NO.	LOCATION	SERVICE	PIPE FLOW	T.D.H.	MOTOR SIZE (MIN)	TYPE	REMARKS
2-P-26	TRENCH CELL 7 PRIMARY SUMP	LEACHATE	6.31 l/S (140gpm)	35.05m (115 ft)	3.73kw (5.0hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-27	TRENCH CELL 7 PRIMARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-28	TRENCH CELL 7 SECONDARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-29	TRENCH CELL 8 PRIMARY SUMP	LEACHATE	6.31 l/S (140gpm)	35.05m (115 ft)	3.73kw (5.0hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-30	TRENCH CELL 8 PRIMARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-31	TRENCH CELL 8 SECONDARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-32	TRENCH CELL 9 PRIMARY SUMP	LEACHATE	6.31 l/S (140gpm)	35.05m (115 ft)	3.73kw (5.0hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-33	TRENCH CELL 9 PRIMARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-34	TRENCH CELL 9 SECONDARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-35	TRENCH CELL 10 PRIMARY SUMP	LEACHATE	6.31 l/S (140gpm)	35.05m (115 ft)	3.73kw (5.0hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-36	TRENCH CELL 10 PRIMARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS
2-P-37	TRENCH CELL 10 SECONDARY SUMP	LEACHATE	0.95 l/S (15gpm)	42.67m (140 ft)	0.56kw (0.75hp)	SUBMERSIBLE CENTRIFUGAL	MOUNTED ON WHEELED TROLLEYS

VALVE SCHEDULE (203mm(8") AND LARGER MECHANICAL AND ALL MOTORIZED)

VALVE NO.	LOCATION	SERVICE	TYPE	SIZE	PRESSURE (PSI)	OPERATOR	REMARKS
2-V-19	MH-30	LEACHATE	ECCENTRIC PLUG VALVE	254.2mm (10 in)	1034 kPa (150 psi)	MOTORIZED	
2-V-20	MH-31	LEACHATE	ECCENTRIC PLUG VALVE	254.2mm (10 in)	1034 kPa (150 psi)	MOTORIZED	
2-V-21	MH-32	LEACHATE	ECCENTRIC PLUG VALVE	254.2mm (10 in)	1034 kPa (150 psi)	MOTORIZED	
2-V-22	MH-33	LEACHATE	ECCENTRIC PLUG VALVE	254.2mm (10 in)	1034 kPa (150 psi)	MOTORIZED	

METER SCHEDULE

METER NO.	LOCATION	SERVICE	TYPE	PIPE SIZE	FLOW RANGE	REMARKS
2-M-20	CREST PAD CELL 7	LEACHATE	PADDLE METER	50.8mm (2")	0-12.6 l/S (0-200gpm)	
2-M-21	CREST PAD CELL 7	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-22	CREST PAD CELL 7	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-23	CREST PAD CELL 8	LEACHATE	PADDLE METER	50.8mm (2")	0-12.6 l/S (0-200gpm)	
2-M-24	CREST PAD CELL 8	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-25	CREST PAD CELL 8	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-26	CREST PAD CELL 9	LEACHATE	PADDLE METER	50.8mm (2")	0-12.6 l/S (0-200gpm)	
2-M-27	CREST PAD CELL 9	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-28	CREST PAD CELL 9	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-29	CREST PAD CELL 10	LEACHATE	PADDLE METER	50.8mm (2")	0-12.6 l/S (0-200gpm)	
2-M-30	CREST PAD CELL 10	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	
2-M-31	CREST PAD CELL 10	LEACHATE	PADDLE METER	19.1mm (3/4")	0-1.6 l/S (0-25gpm)	

PIPING IDENTIFICATION SCHEDULE

FLUID ABBREVIATION	FUNCTION	PIPING MATERIALS (SEE SCHEDULE BELOW)				FIELD TEST REQUIREMENTS (SEE NOTE 4 AND NOTE 5)		
		EXPOSED PIPING		BURIED PIPING		MINIMUM TEST PRESSURE PSI	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 3)
		2 IN. DIA. AND SMALLER	2-1/2 IN. DIA. AND LARGER	2 IN. DIA. AND SMALLER	2-1/2 IN. DIA. AND LARGER			
CN	CONTAINER PIPE	--	--	--	26	SEE SPEC	WATER	(C)
LC	LEACHATE COLLECTION	--	--	--	25	--	--	--
LCC	LEACHATE COLLECTION CLEANOUT	--	26	--	26	--	--	--
LE	LEACHATE	16	16	26	26	SEE SPEC	WATER	(C)
RW	RAW WATER (NON-POTABLE)	--	--	--	35,25	SEE SPEC	WATER	(C)
TSR	TRENCH SUMP RISER PIPE	--	26	--	25,26	--	--	--
TSS	TRENCH SUMP SIGNAL CABLE PIPE	--	--	37	--	--	--	--
LYS	LYSIMETER ACCESS PIPE	--	26	--	25, 26	--	--	--

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S00X524A00

MANHOLE SCHEDULE
(SEE NOTE 2)

COORDINATE NO.	MANHOLE NO.	INVERT ELEV. IN	INVERT ELEV. OUT	SIDE INLET ELEV.	TOP OF MH ELEV.	DIA. m(FT)	NOTES
3525	MH-28	722.57	722.53	722.78	730.30	2.13(7)	
3527	MH-29	722.57	722.53	722.78	730.30	2.13(7)	
3528	MH-30	724.07	724.04	724.28	730.30	3.05(10)	INVERT EL PIPES IN/OUT-10" LE(26). SIDE INLET 4" LE(26)
3529	MH-31	724.07	724.04	724.28	730.30	3.05(10)	INVERT EL PIPES IN/OUT-10" LE(26). SIDE INLET 4" LE(26)
3530	MH-32	725.57	725.54	725.78	730.30	3.05(10)	INVERT EL PIPES IN/OUT-10" LE(26). SIDE INLET 4" LE(26)
3531	MH-33	725.57	725.54	725.78	730.30	3.05(10)	INVERT EL PIPES IN/OUT-10" LE(26). SIDE INLET 4" LE(26)

NOTES

1. SEE ELECTRICAL DRAWING 0600X-DD-E0090 FOR UNIT HEATERS, EXHAUST FANS AND LOUVERS.
2. SEE DRAWING 0600X-DD-C0261 FOR COORDINATE INFORMATION.
3. LEAKAGE ALLOWANCE IS AS FOLLOWS:
   (A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
   (B) PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
   (C) SEE SPECS.
4. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
5. ANY ALLOWABLE DEVIATION FROM THE PIPING MATERIALS OR FIELD TEST REQUIREMENTS SHOWN WILL BE NOTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
6. FOR VALVES 8 INCHES AND LARGER SEE VALVE SCHEDULE. FOR SPECIAL VALVES SEE SPECIFICATIONS.
7. VALVES 2-1/2 INCH AND SMALLER MAY HAVE SCREWED ENDS VALVES 3 INCH AND LARGER SHALL HAVE FLANGED ENDS, UNLESS OTHERWISE SHOWN OR SPECIFIED.
8. CELLS 7-10 MECHANICAL SCHEDULES CONTINUED ON 0600X-DD-M0025, CELLS 7-10 MECHANICAL SCHEDULES.

TYPICAL PIPE DESIGNATION:

MATERIAL GROUP NUMBER

2" RW (2)

PIPE DIAMETER — FLUID ABBREVIATION

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REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	DSGN/ENGR	ENGR CHK	RVW ENG'R	PROJ ENG'R
0	9/28/07	ISSUED FOR CONSTRUCTION					N/A	

SCALE: XX

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANT LLC
DENVER, CO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
MECHANICAL SCHEDULES

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDM0023.DWG

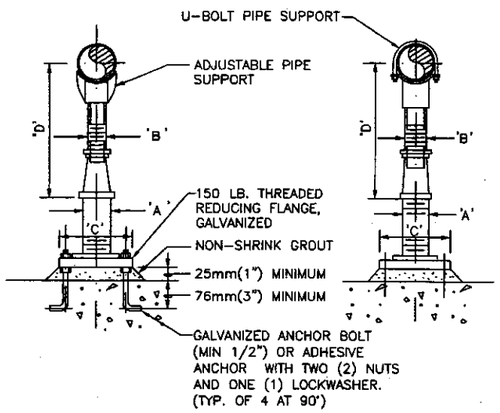
TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-M0023	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15926 SHT01	600G	9901

River Corridor Closure Contract
Dedicated to Excellence

DRAWING NO.	REV. NO.
0600X-DD-M0024	0

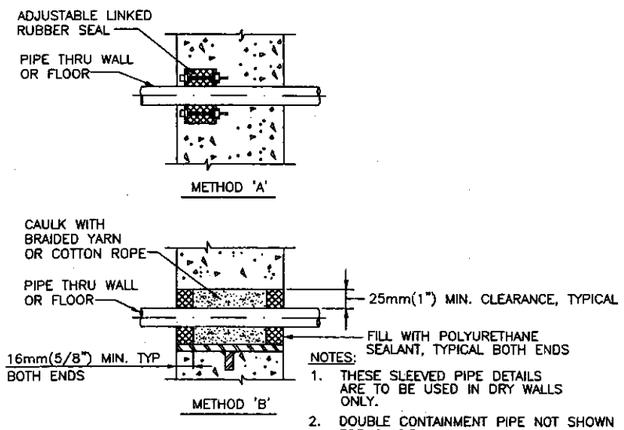


ADJUSTABLE PIPE SUPPORT
APPROXIMATE DIMENSIONS IN MM(INCHES)

PIPE SIZE	'A'	'B'	'C'	'D' MINIMUM	'D' MAXIMUM
64mm(2-1/2")	64mm(2-1/2")	38mm(1-1/2")	229mm(9")	203mm(8")	292mm(11-1/2")
76mm(3")	64mm(2-1/2")	38mm(1-1/2")	229mm(9")	210mm(8-1/4")	298mm(11-3/4")
89mm(3-1/2")	64mm(2-1/2")	38mm(1-1/2")	229mm(9")	216mm(8-1/2")	305mm(12")
102mm(4")	76mm(3")	* 64mm(2-1/2")	229mm(9")	260mm(10-1/4")	356mm(14")
152mm(6")	76mm(3")	* 64mm(2-1/2")	229mm(9")	295mm(11-5/8")	387mm(15-1/4")
203mm(8")	76mm(3")	* 64mm(2-1/2")	229mm(9")	346mm(13-5/8")	419mm(16-1/2")
254mm(10")	76mm(3")	* 64mm(2-1/2")	229mm(9")	371mm(14-5/8")	464mm(18-1/4")
305mm(12")	76mm(3")	* 64mm(2-1/2")	229mm(9")	397mm(15-5/8")	502mm(19-3/4")
356mm(14")	102mm(4")	76mm(3")	279mm(11")	479mm(18-7/8")	527mm(20-3/4")
406mm(16")	102mm(4")	76mm(3")	279mm(11")	505mm(19-7/8")	565mm(22-1/4")
457mm(18")	152mm(6")	89mm(3-1/2")	343mm(13-1/2")	540mm(21-1/4")	610mm(24")
508mm(20")	152mm(6")	89mm(3-1/2")	343mm(13-1/2")	591mm(23-1/4")	648mm(25-1/2")
610mm(24")	152mm(6")	102mm(4")	343mm(13-1/2")	673mm(26-1/2")	718mm(28-1/4)
762mm(30")	152mm(6")	102mm(4")	343mm(13-1/2")	752mm(29-5/8")	800mm(31-1/2")
813mm(32")	152mm(6")	102mm(4")	343mm(13-1/2")	778mm(30-5/8")	832mm(32-3/4")
914mm(36")	152mm(6")	102mm(4")	343mm(13-1/2")	829mm(32-5/8)	883mm(34-3/4")

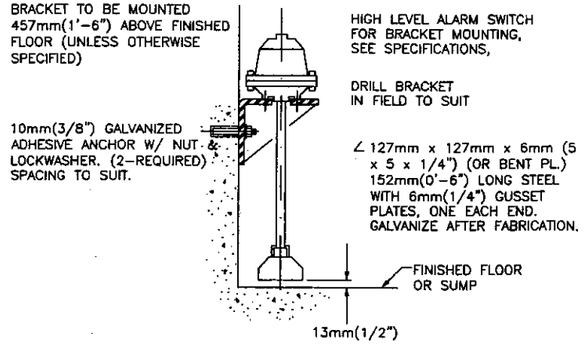
* SEE MFR.

1 ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT U-BOLT
0600X-DD-M0022 NTS



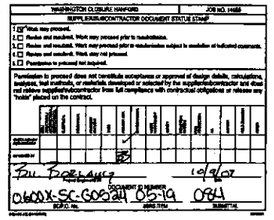
NOTES:
1. THESE SLEEVED PIPE DETAILS ARE TO BE USED IN DRY WALLS ONLY.
2. DOUBLE CONTAINMENT PIPE NOT SHOWN FOR CLARITY.

2 SLEEVED PIPE OPENING
0600X-DD-M0022, M0027 NTS



3 FLOOD ALARM SWITCH
0600X-DD-M0022 NTS

NOTES



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0	9/28/07	ISSUED FOR CONSTRUCTION	ERR	JD	JWH	RLH	N/A	JWH

SCALE: XX

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON	WEAVER BOOS CONSULTANTS LLC DENVER, CO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
MECHANICAL DETAILS

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDM0024.DWG

TASK	DRAWING NO.	REV. NO.
EDRF	0600X-DD-M0024	0

RECORD INFORMATION

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H-6-15927 SHT01	600G	9901

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DRAWING NO.	REV. NO.
0600X-DD-M0025	0

PIPING MATERIAL SCHEDULE

(SEE NOTE 5)

GROUP NO.	PIPE	FITTINGS	VALVES, 6 INCHES AND SMALLER (SEE NOTE 6 & 7)
16	POLYVINYL CHLORIDE, SCHEDULE 80, SEE SPECS	POLYVINYL CHLORIDE, SCHEDULE 80 SEE SPECS	POLYVINYL CHLORIDE, BALL OR LIFT CHECK.
25	HDPE PERFORATED, CELL CLASSIFICATION 345434C ASTM D-2513 AND 3350, RESIN TYPE PE 3408	HDPE, THERMAL BUTT-FUSION	------
26	HDPE, CELL CLASSIFICATION 345434C ASTM D-2513 AND 3350; RESIN TYPE PE 3408	HDPE, THERMAL BUTT-FUSION, ASTM D-792	------
35	POLYVINYL CHLORIDE TYPE 1, GRADE 1, 18 ASTM D1784, AWWA C900	SHORT BODY CAST IRON OR DUCTILE IRON AWWA C110	SEE SPECS
37	POLYVINYL CHLORIDE, SCHEDULE 40: TYPE 1, GRADE 1, OR CLASS 12454-13 CONFORMING TO ASTM D1784, AND ASTM D1785	POLYVINYL CHLORIDE, SCHEDULE 40, ASTM D2466 AND ASTM D2467 FOR SOCKET WELD. USE SCHEDULE 80 ASTM D2464 FITTINGS FOR ANY FITTINGS REQUIRING THREADS.	--------

NOTES

1. SEE ELECTRICAL DRAWING 0600X-DD-E0090 FOR UNIT HEATERS, EXHAUST FANS AND LOUVERS.
2. SEE DRAWING 0600X-DD-C0260 FOR COORDINATE INFORMATION.
3. LEAKAGE ALLOWANCE IS AS FOLLOWS:
   (A) PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
   (B) PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
   (C) SEE SPECS.
4. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
5. ANY ALLOWABLE DEVIATION FROM THE PIPING MATERIALS OR FIELD TEST REQUIREMENTS SHOWN WILL BE NOTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.
6. FOR VALVES 8 INCHES AND LARGER SEE VALVE SCHEDULE. FOR SPECIAL VALVES SEE SPECIFICATIONS.
7. VALVES 2-1/2 INCH AND SMALLER MAY HAVE SCREWED ENDS VALVES 3 INCH AND LARGER SHALL HAVE FLANGED ENDS, UNLESS OTHERWISE SHOWN OR SPECIFIED.
8. CONTINUED FROM 0600X-DD-M0023, CELLS 7-10 MECHANICAL SCHEDULES.

TYPICAL PIPE DESIGNATION:

MATERIAL GROUP NUMBER

2" RW (2)

PIPE DIAMETER — FLUID ABBREVIATION

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U.S. DEPARTMENT OF ENERGY

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RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS LLC
DENVER, CO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY CELLS 7 - 10 MECHANICAL SCHEDULES

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14655	DE-AC06-05RL-14655	6XDM0025.DWG

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EDRF	0600X-DD-M0025	0

RECORD INFORMATION

RECORD NO.	BLDG NO.	INDEX NO.
H-6-15928 SHT01	600G	9901

WASHINGTON CLOSURE HANFORD — JOB NO. 14655
SUPPLIER/SUBCONTRACTOR DOCUMENT STATUS STAMP

1. ☑ Work may proceed.
2. ☐ Revise and resubmit. Work may proceed prior to resubmission.
3. ☐ Revise and resubmit. Work may proceed prior to resubmission subject to resolution of indicated comments.
4. ☐ Revise and resubmit. Work may not proceed.
5. ☐ Permission to proceed not required.

Permission to proceed does not constitute acceptance or approval of design details, calculations, analyses, test methods, or materials developed or selected by the supplier/subcontractor and does not relieve supplier/subcontractor from full compliance with contractual obligations or release any "holds" placed on the contract.

10/9/07

0600X-SC-G0524 05-19 085

500X524A00

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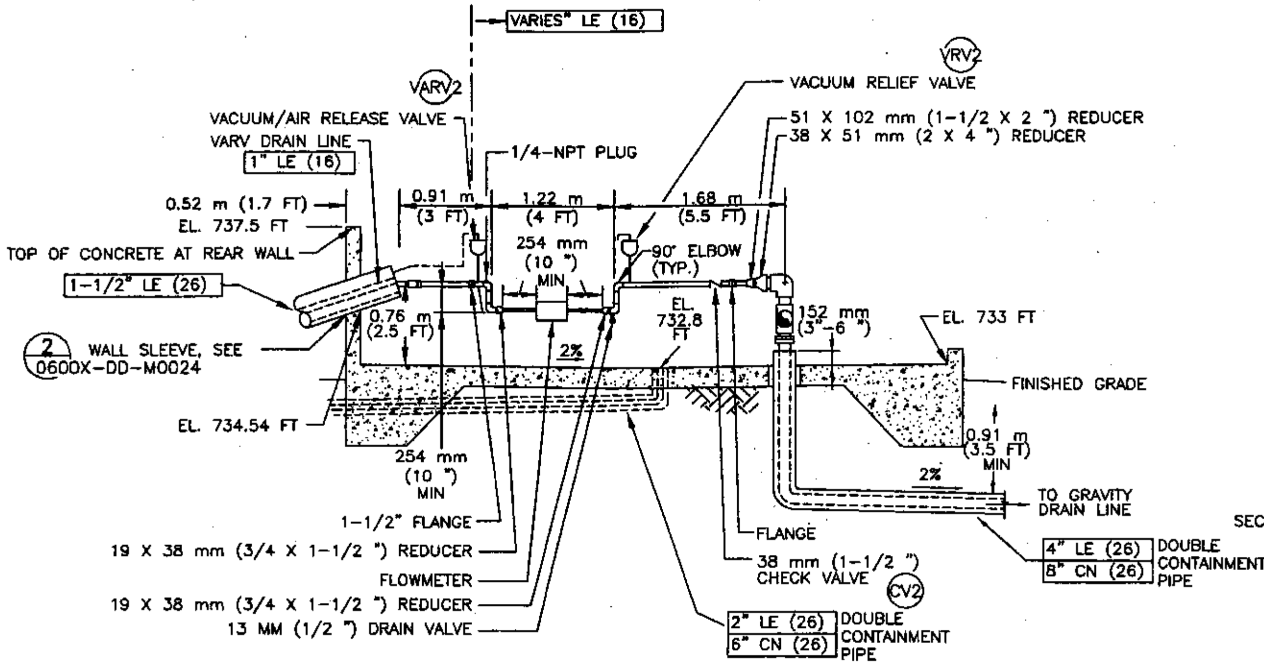
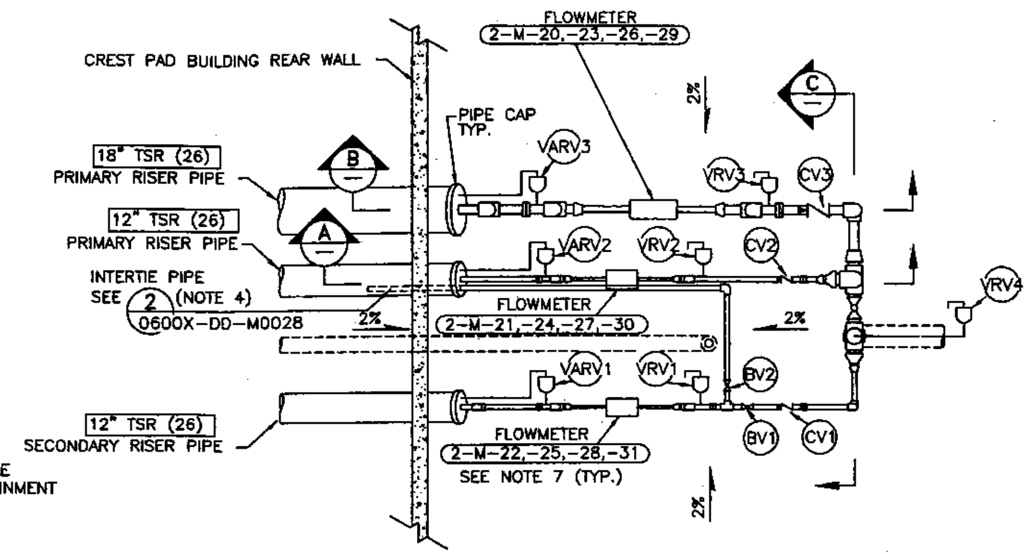
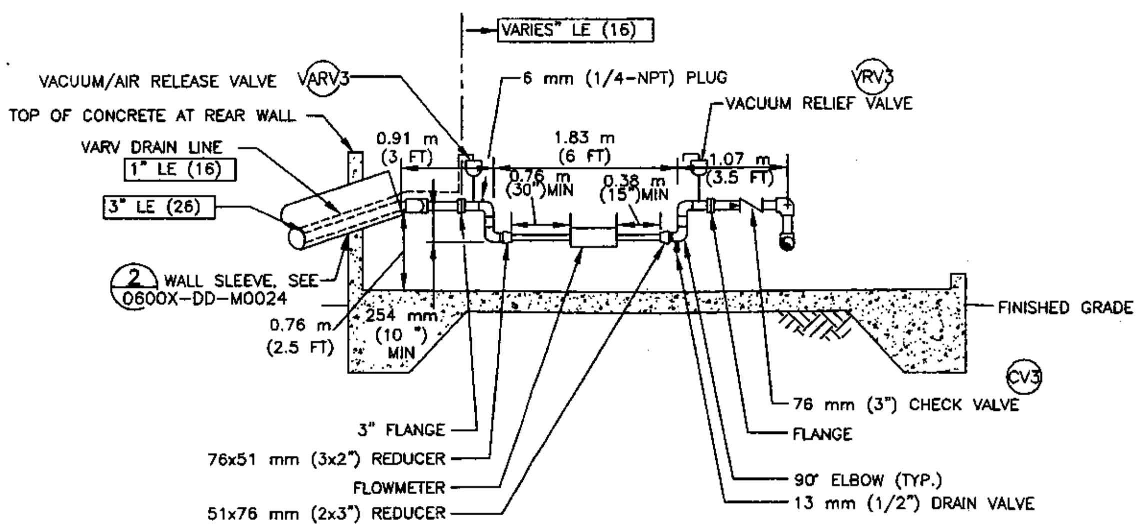


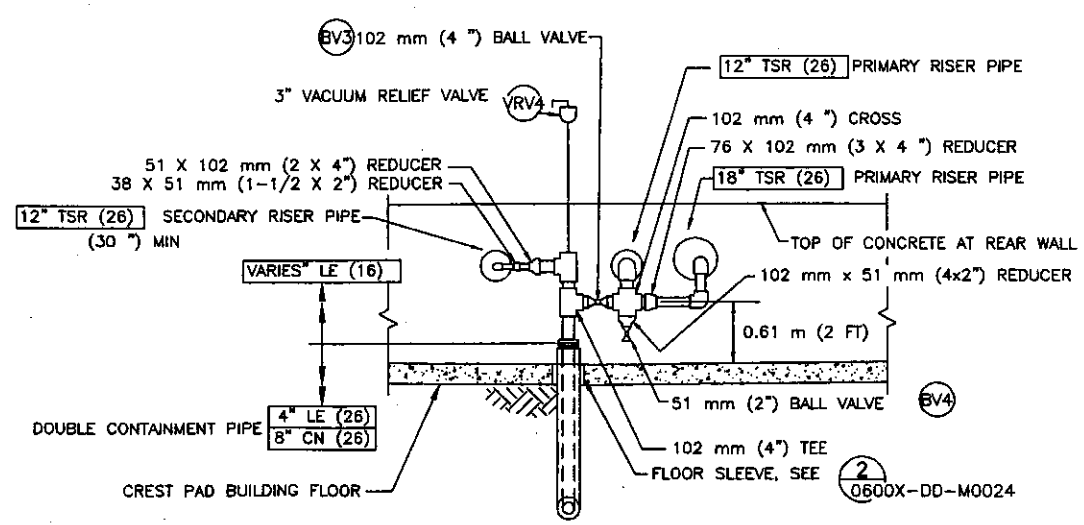
CREST PAD PROFILE,
A LOW CAPACITY LINE (PRIMARY)
(NOTE 2)



1 CREST PAD PIPING PLAN
0600X-DD-C0291 (NOTES 1, 3)



CREST PAD PROFILE,
B HIGH CAPACITY LINE (PRIMARY)



C HEADER PIPE ELEVATION

NOTES

1. PIPE SUPPORTS, PIPE CAPS, JUNCTION BOXES, AND CONDUIT NOT SHOWN.
2. SECONDARY LOW-CAPACITY DISCHARGE LINE GENERALLY SIMILAR.
3. ALL PIPING CONNECTIONS SHALL ALLOW REMOVAL AND REPLACEMENT OF ALL VALVES, METERS, AND SIMILAR COMPONENTS WITHOUT CUTTING OF PIPE OR FITTINGS.
4. EXTEND INTERTIE PIPE 0.9 m (3 FT) INTO PRIMARY RISER PIPE.
5. SEE (1 / 0600X-DD-M0024) FOR CREST PAD BLDG. PIPE SUPPORT DETAILS.
6. SEE SPECIFICATION 0600X-SP-M0029 FOR VALVE INFORMATION AND IDENTIFICATION TAGS.
7. FLOWMETER IDENTIFICATION NUMBERS SHOWN FOR BOTH CREST PAD BUILDINGS, SEE METER SCHEDULE ON 0600X-DD-M0023.

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LEGEND

(BV1) VALVE NUMBER

0600X-SC-60524 05-19 086
S00X524A00

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U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC.
RICHLAND, WASHINGTON

WEAVER BOOS CONSULTANTS LLC
DENVER, CO

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CREST PAD DETAILS - 1

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ERDF	0600X-DD-M0027	0

RECORD INFORMATION

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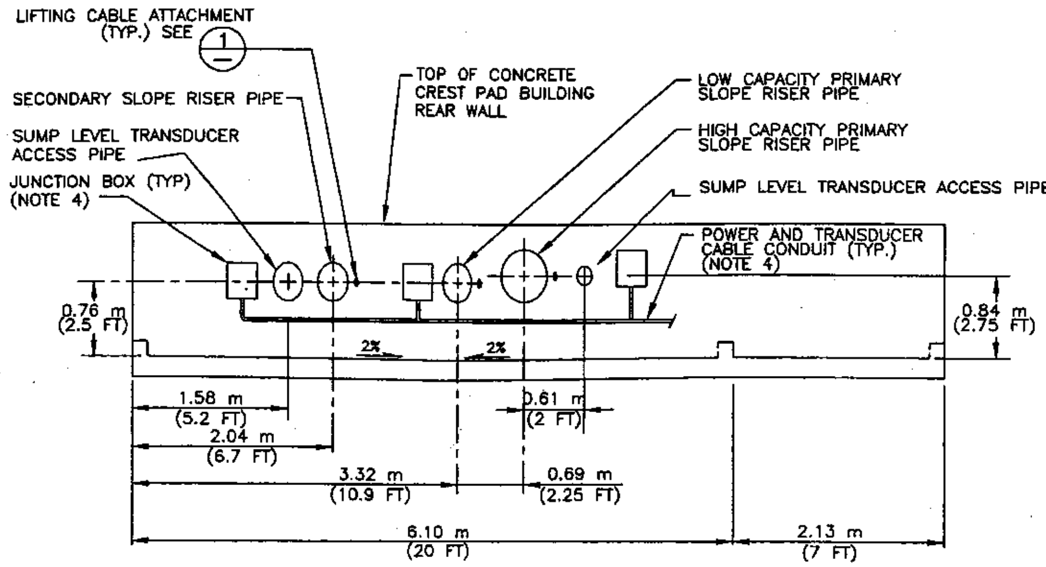
H-6-15930 SHT01	600G	9901

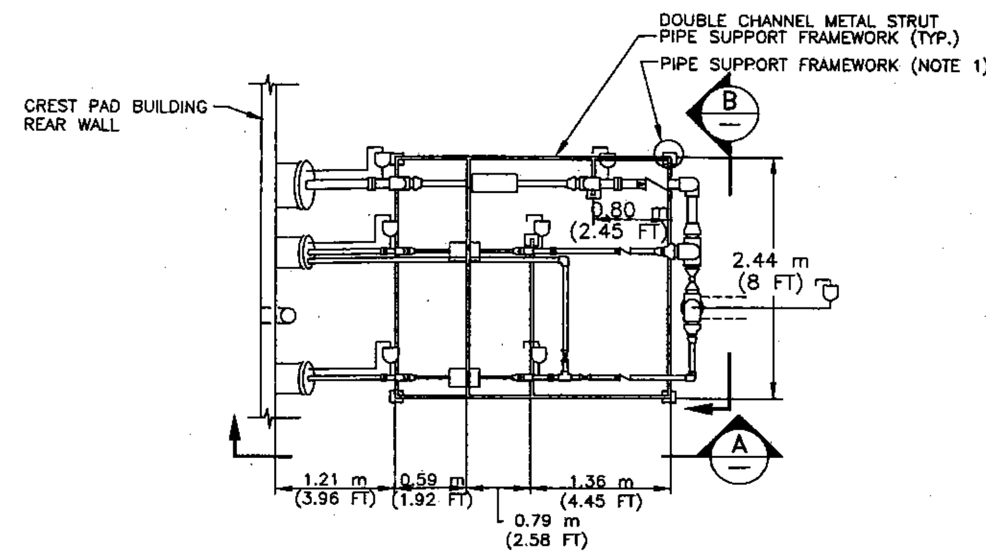
River Corridor Closure Contract — Dedicated Excellence

DRAWING NO.	REV. NO.
0600X-DD-M0028	0



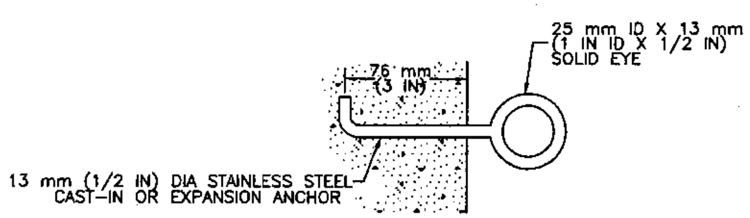
A CREST WALL ELEVATION
0600X-DD-C0291

SCALE 0 3 6 feet

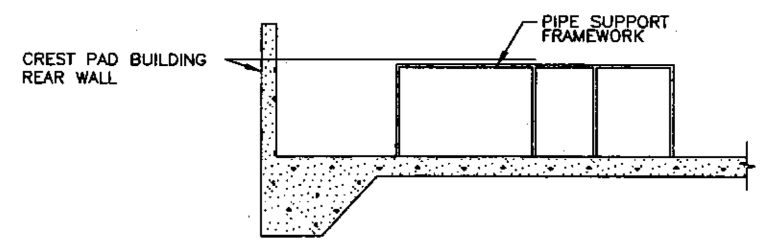


1 PIPE SUPPORT PLAN LAYOUT
0600X-DD-M0027 (NOTES 1, 2, 3)

SCALE 0 3 6 feet

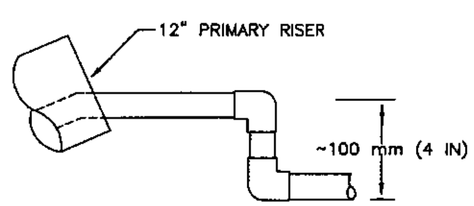


1 LIFTING CABLE ATTACHMENT DETAIL
NTS

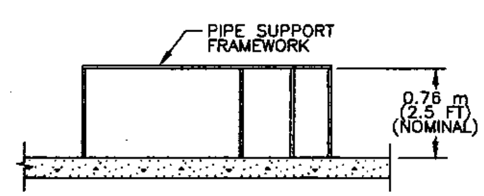


A PIPE SUPPORT SIDE VIEW

SCALE 0 3 6 feet



2 INTERTIE DETAIL (ELEVATION)
0600X-DD-M0027 NTS



B PIPE SUPPORT END VIEW

SCALE 0 3 6 feet

NOTES

1. BOLT FRAMEWORK TO CONCRETE FLOOR USING NUMBER, SIZE, AND TYPE OF ANCHOR BOLTS PER FRAMEWORK MANUFACTURER'S RECOMMENDATIONS.
2. PIPE SUPPORT LAYOUT MAY BE ADJUSTED TO SUIT FIELD CONDITIONS WITH APPROVAL OF CONTRACTING OFFICER.
3. CREST PAD BUILDING NOT SHOWN.
4. LOCATE JUNCTION BOXES AND CONDUITS AS CONVENIENT SUBJECT TO CONTRACTOR'S APPROVAL.
5. SEE 0600X-DD-E0090 FOR ADDITIONAL ELECTRICAL DETAILS.

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SCALE: AS SHOWN

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ENVIRONMENTAL RESTORATION DISPOSAL FACILITY
CELLS 7 - 10
CREST PAD DETAILS - 2

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TASK	DRAWING NO.	REV. NO.
ERDF	0600X-DD-M0028	0

RECORD INFORMATION

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H-6-15931 SHT01	600G	9901

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